

Tamil Nadu Veterinary and Animal Sciences University



QUESTION BANK

for

Competitive Examinations

(VETERINARY AND ANIMAL SCIENCES)

Compiled by

Dr. A. MANIVANNAN

Dr. P. VISHA

Dr. M. DHANALAKSHMI

Dr. A. ELAMARAN

Dr. B. KARTHIK

Dr. T. SIVAKUMAR

Education Cell

Veterinary College and Research Institute

Orathanadu – 614 625, Thanjavur District

2020



TAMIL NADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY

Veterinary College and Research Institute, Orathanadu, Thanjavur - 614 625.



Dr. T. Sivakumar, M.V.Sc., M.Sc.(UK), Ph.D., PGDET, FNAPM

Date: 07.02.2020

FOREWORD

Tamil Nadu Veterinary and Animal Sciences University (TANUVAS) is recognized as an Institute Of Excellence for Veterinary and Animal Sciences in South Asia owing to its credible contributions in Education, Research and Extension.

Veterinary College and Research Institute, Orathanadu, a constituent college of TANUVAS contributes to the growth of the livestock and poultry sector by carrying out several Animal Husbandry and Veterinary Services for the upliftment of livestock and farmers of Cauvery delta region of Tamilnadu.

In the Education arena, our college staff are creating various educational resources to serve a ready reference for veterinary graduates and the students who are striving hard for competitive examinations viz. Tamilnadu Public Service Commission (TNPSC), Union Public Services Commission (UPSC), ICAR Exams. All these resources are of high standards that made our students to score highest ranks in All India Post Graduate Entrance Examinations.

In continuation of this, the faculty of VCRI Orathanadu, TANUVAS have come out with a comprehensive book on Multiple Choice Questions in Veterinary and Animal Sciences as per the new TNPSC syllabus. The questions in this book are critically framed to give a broad overview and insight of the various veterinary subjects.

I whole heartedly congratulate our staff for their tremendous efforts in preparing and compiling this book, which is the need of the hour in Tamilnadu.

All the best..!

(T.Sivakumar

Dean Orathar

VCRI, Orathanadu

Sl. no.	Contents		
1.	Animal Genetics and Breeding Dr. P. Vijayakumar, Assistant Professor, LFC	04 – 17	
2.	Veterinary and Animal Husbandry Extension Education Dr.K.P.Saravanan, Assistant Professor, VAE and Dr.V.Sasikala, Assistant Professor, VAE	18 – 28	
3.	Animal Nutrition Dr.K.Ayyappan, Assistant Professor, ANN and Dr.M.Palanivel. Assistant Professor, ANN	29 – 42	
4.	Veterinary Clinical Medicine Dr. M. Saravanan, Assistant Professor, VCC	43 – 49	
5.	Livestock Production Management Dr.A.Clement Ebenezer Henry, Assistant Professor, LPM	50 – 60	
6.	Livestock Products Technology (Dairy Science) Dr.G.Rajarajan, Assistant Professor, LPT	61 – 71	
7.	Livestock Products Technology (Meat Science) Dr.R.Ilavarasan, Assistant Professor, LPT	72 – 83	
8.	Veterinary Preventive Medicine Dr. K. Jayalakshmi, Assistant Professor, VMD	84 – 88	
9.	Veterinary Anatomy Dr.S.Paramasivam, Professor and Head, VAN and Dr.S.Sivagnanam, Assistant Professor, VAN	89 – 131	
10.	Veterinary Biochemistry Dr.S.Murugavel, Assistant Professor, VPB	132 – 141	
11.	Veterinary Obstetrics and Gynaecology Dr.V.Prabaharan, Assistant Professor, VOG and Dr.R.Rajkumar, Assistant Professor, VOG	142 – 178	
12.	Veterinary Microbiology Dr.B.Puvarajan, Associate Professor, VMC and Dr.R.Manickam, Assistant Professor, VMC	179 – 188	
13.	Veterinary Parasitology Dr.A.Latchumikanthan, Assistant Professor, VPA and Dr.M.K.Vijayasarathy, Assistant Professor, VPA	189 – 203	
14.	Veterinary Pathology Dr.R.Ravikumar, Assistant Professor, VPP & Dr.P.C.Prabhu, Assistant Professor, VPP and Dr.K.Thilagavathi, Assistant Professor, VPP	204 – 213	
15.	Veterinary Pharmacology and Toxicology Dr.P.Senthilkumar, Assistant Professor, VPT	214 – 228	
16.	Veterinary Physiology Dr.P.Visha, Associate Professor and Head, VPB	229 – 238	
17.	Veterinary Surgery and Radiology Dr.S.Senthil Kumar, Associate Professor and Head, VCC & Dr.A.Kumaresan, Assistant Professor and Head, VSR & Dr.P.Tamilmahan, Assistant Professor, VSR	239 – 247	

ANIMAL GENETICS AND BREEDING

1.	All Tamil Nadu cattle breeds are				
	a. Milch breeds		b. Draught breeds		
	c. Dual purpose d. None of the abo		e above		
2.	cattle breed is suitable f	or plough	ing in marshy p	addy fie	elds
	a. Bargur b. Umblachery		c. Kangayam		d. Pullikulam
3.	Recently recognized sheep breeds of	f Tamil N	adu		
	a. Katchaikatty Black		b. Che	evvadu	
	c. Both a & b		d. Ve	mbur	
4.	Recently recognized Goat breeds of	Tamil Na	ndu		
	a. Trichy Black b. Salem B	lack	c. Chevvadu		d. Bargur
5.	Recently recognized buffalo breed of	of Tamil N	Vadu		
	a. Bargur b. Salem Black	c. Too	dad. Katchaikat	ty Black	ζ
6.	cattle breed known for i	ts unsurpa	assed in speed a	nd endu	rance in
	trotting in hilly region				
	a. Bargur b. Umblachery		c. Kangayam		d. Pullikulam
7.	is the nodal agency	for the reg	gistration of nev	vly iden	tified
	germplasm of livestock and poultry				
	a. ICAR- IVRI b. ICAR- N	IDRI	c. ICA	R- NB	AGR
	d.ICAR- CIRC				
8.	Pea comb is common in which class	s of poultr	У		
	a) American b) English		c) Asiatic	d) Me	diterranean
9.	Failure to response to selection is ca	alled			
	a. Selection limit		b. Asy	mmetry	y of response
	c. Selection differential		d. Sel	ection i	ntensity
10.	. The genetic improvement of well kn	nown bree	d can be achiev	ed by _	
	a. Selecting breeding		b. Gra	ding-up)
	c. Inbreeding		d. Lin	e breedi	ing
11.	. The offspring are better than the me	an of both	n parents is calle	ed as	
	a. Positive heterosis		b. Neg	gative H	leterosis
	c. Hybrid Vigour		d. Bot	h a and	c

12.	is defined a	s the average age of th	ne parents when their	r offspring are born	
	a. Selection differenti	al	b. Generation interval		
	c. Selection intensity		d. Genet	ic gain	
13.	involves	s a succession of back	cross from one popu	lation into another	
	population.				
	a. Cross breeding	b. Backcrossing	c. Grading-up	d. Top	
	crossing				
14.	In Indian scenario, bre	eding bulls are selecte	ed for genetic impro	vement of milk	
	production based on				
	a. Progeny testing		b. Pedigr	ee selection	
	c. Both a and b		d. Individ	lual selection	
15.	The main concern of c	aptive breeding progr	amme is		
	a. Loss of genetic di	versity	b. Inbree	ding depression	
	c. Poor adaptation to	natural environment	d. All of the above	ve	
16.	When one gene masks	the expression of and	ther non-allelic gen	e is known	
	as				
	a. Epistasis		b. Domin	ance-recessive	
	c. Co-dominance		d. Incomp	plete dominance	
17.	Heritability of product	ion traits is			
	a. Low	b. Medium	c. High	d. None	
18.	If gene frequency of A	λ =0.7 & a=0.3, find ou	it genotypic frequen	cy of heterozygote	
	a. 0.42	b. 0.21	c. 0.49	d. 0.09	
19.	Heterosis in F2 – gene	ration will becomes_			
	a. Half of F1 genera	tion	b. No cha	ange	
	c. Double of F1 gen	eration	d. None		
20.	Crossing over takes pl	ace in	phase of cell cycle		
	a. Pachytene stage	of prophase-I	b. Diploto	ene stage of	
	prophase-I				
	c. Metaphase of me	iosis I	d. Metap	hase of meiosis II	
21.	Which force changes t	he gene frequency fas	test		
	a. Migration	b. Genetic drift	c. Mutation	d. Selection	

22. Barı	ed plumage in poul	try, broodiness in pou	try, rapid feathering	& slow feathering
in p	oultry, cryptorchidis	sm in horses and white	eye in drosophila are	e examples
of				
a	. Sex-linked inherita	ance	b. Sex-influ	enced inheritance
c	. Sex-limited inherit	tance	d. None	
23. Auto	sexing on the basi	s of	sex-linked traits	of chicken
a.	Barred plumage		b. Fast & slo	ow feathering
c.	Both a and b		d. None	
24. Mill	yield and draught	capacity of cattle has a	1	correlation
a	. Negatively correla	tion	b. Nonsense	correlation
c.	Positively correlation	on	d. None of the	he above
25. The	ratio of selection di	fferential to the pheno	typic standard deviat	ion of a trait is
kno	wn as	_		
a.	Intensity of selection	on	b. Response	to selection
c.	Accuracy of selecti	on	d. Limit of s	election
26. Gen	es of sex-limited tra	its are present on		
a	. Sex-chromosomes	b. Autosomes	c. Both d. No	one
27. The	increasing order of	efficiency of methods	of selection is	
a.	Tandem selection <	Independent culling	< Selection index	
b.	Tandem selection <	< Selection index < Inc	dependent culling	
c.	Independent culling	g < Selection index < '	Γandem selection	
d.	Independent culling	g < Tandem selection<	Selection index	
28. Wh	ich is true about ind	lividual selection		
a	. Animals are select	ed on the basis of their	r own phenotype	
b.	It is most accurate	basis of selection and	gives direct estimate	of breeding value
c.	Generation interval	is shortest among all	the basis of selection	
d.	All of the above			
29. Indi	vidual selection and	pedigree selection are	e more effective wher	n heritability of
trait	is			
a	. High	b. Low	c. Medium	d.
N	one			

30. Progeny testing and family selection are more effective when the trait is				
a. Sex limited traits	b. Low heritable traits			
c. Carcass traits	d. All of the above			
31. Most effective aids to selection for improving sex-limited trait is				
a. Progeny testing	b. Sib selection			
c. Family selection	d. Individual selection			
32. Which of the following is true about repear	tability of a trait			
a. It is used to predict future performance	ce from past records			
b. It is used to predict MPPA and used i	n making culling decisions of cows			
c. It is the upper limit of heritability in b	road sense			
d. All the above				
33. The ratio of response to selection to the sel	ection differential is termed as			
a. Regression	b. Realized heritability			
c. Heritability in broad sense	d. Heritability in narrow sense			
34. The unit of selection in family selection is				
a. Family mean	b. Pedigree information			
c. Individual mean	d. Within family mean			
35. Genetic gain per year is depend upon				
a. Heritability	b. Calving interval			
c. Generation interval	d. Repeatability			
36. "Resemblance between relatives" is the ba	sis of estimation of			
a. Heritability	b. Repeatability			
c. Genetic Correlation	d. Regression			
37. Repeatability is generally estimated by				
a. Half-sib correlation	b. Intra-class correlation			
c. Regression	d. BLUP			
38. Heterosis, inbreeding depression and speci	fic combining ability (SCA) are caused			
by				
a. Non-additive gene action (Dominance	e + Over-dominance + Epistasis)			
b. Additive gene action				
c. Both a & b				

	d. None of the above			
39. G	eneral combining abil	ity, Complementarity,	breeding value	& resemblance
b	etween relative is due	to		
	a. Non-additive gene	action (Dominance +	Over-dominance	ce + Epistasis)
	b. Additive gene action	on		
	c. Both a & b			
	d. None of the above			
40. R	eciprocal recurrent sel	ection (RRS) is more	suitable for pou	altry and swine
se	election programme to	improve		
	a. GCA	b. SCA	c. Both	d. None
41	is used	d for the production of	commercial br	oilers.
	a. Crossbreeding			b. Line crossing
	c. Strain crossing			d. Selective breeding
42. W	hat are the assumption	ns of Hardy-Weinberg	g equilibrium	
	a. Small population,	random mating, absen	ce of mutation,	migration & selection
	b. Large size populat	ion, random mating, a	bsence of muta	ation, migration &
	selection			
	c. Large size populat	ion, random mating, p	resence of mut	ation, migration &
	selection			
	d. None the above			
43. Ir	breeding coefficient	of progenies produced	by grandparen	t – offspring mating,
h	alf sib mating & doubl	e first cousin mating a	are	
	a. 0.25	b. 0.50	c. 0.125	d. 0.0625
44. G	enetic correlation betw	veen traits is due to		
	a. Pleiotropy			b. Linkage
	c. Heterozygosity			d. All the above
45. T	he proportionate contr	ibution of offspring to	the next gener	ation is known as
	a. Fitness			b. Adaptive value
	c. Selective value			d. All the above
46. N	umber of barr-body in	turner syndrome		
	a. 0	b. 1	c. 2	d. 3

47. Which of the following pair is not correctly m	atched		
a. Turner syndrome: 44 + X0	b. Klinefelter syndrome: 44 + XXY		
c. Down syndrome: Trisomy 21	d. Cat cry syndrome: Trisomy 5		
48. Which of the following is correct about genetic	ic code		
a. It includes 61 codons for Amino acids &	3 stop codons		
b. Triplet nature for codon, some amino ac	ids are coded by multiple codons		
c. Almost universal; starting codon is AUC	; AUG code for methionine amino		
acid			
d. All the above			
49. Which of the following is true about inter-se r	mating		
a. Crossing of crossbred progeny having sa	me level of inheritance		
b. It is the mating of crossbred progeny am	ong themselves $(F1 \times F1)$		
c. It maintain the same level of inheritance			
d. All the above			
50. Milk yield and fat yield in dairy animals, egg	size & egg weight in poultry are		
traits			
a. Positively correlated	b. Negatively correlated		
c. No correlation	d. None		
51. Which of the following is/are example(s) of complete linkage			
51. Which of the following is/are example(s) of co	omplete linkage		
51. Which of the following is/are example(s) of coa. Male drosophila	omplete linkage		
	omplete linkage		
a. Male drosophila			
a. Male drosophilab. Female silk moth & female poultry			
a. Male drosophilab. Female silk moth & female poultryc. Sex chromosomes of all heterogametic specification			
a. Male drosophilab. Female silk moth & female poultryc. Sex chromosomes of all heterogametic spd. All the above			
 a. Male drosophila b. Female silk moth & female poultry c. Sex chromosomes of all heterogametic sp. d. All the above 52. Criss-cross pattern of inheritance is seen in 	pecies		
 a. Male drosophila b. Female silk moth & female poultry c. Sex chromosomes of all heterogametic sp. d. All the above 52. Criss-cross pattern of inheritance is seen in a. Sex – linked traits 	b. Sex – limited traits d. None of the above		
 a. Male drosophila b. Female silk moth & female poultry c. Sex chromosomes of all heterogametic sp. d. All the above 52. Criss-cross pattern of inheritance is seen in a. Sex – linked traits c. Sex – influenced traits 	b. Sex – limited traits d. None of the above		
 a. Male drosophila b. Female silk moth & female poultry c. Sex chromosomes of all heterogametic sp. d. All the above 52. Criss-cross pattern of inheritance is seen in a. Sex – linked traits c. Sex – influenced traits 53. Which of the following is/are true about heritance 	b. Sex – limited traits d. None of the above ability shenotypic value in narrow sense		

d. All the above

54. Mean deviation of progeny from its popula	tion mean is known as				
a. Transmitting ability or Average effect	b) Breeding value				
c. Adaptive value	d. None of the above				
55. Breeding value of an animal can be describ	ed as				
a. It is the sum of average effect of the g	enes carried by an individual				
b. It is twice the mean deviation of the p	rogeny from the population mean or				
twice of transmitting ability					
c. It is the value of individual judged by	mean value of its progeny				
d. All are correct					
56. Phenotype is a good indicator of genotype	when the heritability of a trait is				
a. High b. Low	c. Medium d. Zero				
57. Most of the economic traits are					
a. Controlled by many genes (polygenes)	and greatly influenced by environment				
b. Shows continuous variation					
c. The effect of a gene is small and cumu	llative in nature				
d. All of the above					
58. The best method of sire evaluation is					
a. Best Linear Unbiased Prediction (BLU	a. Best Linear Unbiased Prediction (BLUP)				
b. Best Linear Unbiased Estimator (BLUE)					
c. Equi-parent index					
d. Contemporary index					
59. Which of the following is/are disadvantage	(s) of inbreeding				
a. Frequency of undesirable recessive ge	enes is increased				
b. It causes inbreeding depression					
c. Inbred animals are more prone to envi	ironmental changes				
d. All the above					
60. Ability of an individual to stamp its charact	ters on its progeny is known as				
a. Prepotency b. Penetrance c. Express	sivity d. Panmixia				
61. Best method of heritability estimation which	ch is relatively free from biases is				
a. Half sibs correlation method	b. Full sibs correlation method				
c. Intra – sire regression	d. Dam – daughter regression				

62.	Progeny testing is	used to select			
	a. Parent	b. Progeny	c. Ful	l sib	d. Half sib
63.	63. The ultimate source of all genetic variation of population is due to				
	a. Chromosome	esegregation	b. Cro	ossing over	
	c. Mutation, Mig	gration, Selection, Gener	tic drift	d. All the	above
64.	Which is true abo	ut random genetic drift	or 'Sewall'	Wright effec	ct' in a population
	is				
	a. It is a dispers	ive force to change gene	e frequency		
	b. Random fluct	uation in gene frequency	y from one	generation	to next generation
	c. It is only pred	dicted in amount, not in	direction a	nd operates	in small population
	d. All the above				
65.	Which trait show g	greatest inbreeding depre	ession		
	a. Carcass quali	ty	b. Rep	productive a	nd fitness traits
	c. Trait related t	o viability	d) Bo	th b & c	
66.	Which of the follo	wing pair is/are correctly	y matched		
	a. Exon: Coding	g sequence	b. Intr	on: Non-co	ding sequence
	c. Highly herita	ble trait: Low heterosis		d) All the	above
67.	If recombination f	requency is 0.5 then it is	3		
	a. Complete lin	kage		b. Incomp	lete linkage
	c. No linkage			d. All the	above
68.	Which of the follo	wing statement(s) is/are	true about	nucleus bre	eding schemes
	a. CNBS is mai	nly used in pig & poultr	y but ONB	S is used in	cattle, buffalo &
	sheep				
	b. Increase gene	etic progress & reduced	rate of inbi	reeding is ob	oserved in ONBS
	c. CNBS is one	directional gene flow an	nd ONBS i	s bidirection	nal gene flow
	d. All of the abo	ove			
69.	In case of inbreedi	ng, heritability tends to			
	a. Decline	b. Increase	c. Bot	h	d. None
70.	Breeding policy ac	lopted for increasing mi	lk producti	on of non-d	escript cattle is
	a. Inbreeding b	. Crossbreeding c.	Grading up	p d. Line bro	eeding

71. Toda and Burgur buffalo breeds of Tamil Nadu can be best improved by				
a. Selective breeding		b. Crossbreeding		
c. Grading up		d. Inbreeding		
72. Inbreeding is used for o	of inbred lines in			
a. Cattle & buffalo	b. Pig & poultry	c. Pig & buffalo	d. Poultry &	
cattle				
73. Selection intensity is hi	igher when			
a. Fewer animals are	selected b. Large no. o	of animals are selected		
c. Both a and b	d. Nor	ne		
74. Crossing of two or mor	e lines in all possible c	combinations is known	as	
a. Diallele cross	b. Out – crossing	c. Criss – cross	d. Top –	
crossing		- / / / /		
75. Maintenance of hybrid	vigour in a cattle herd	is done by		
a. Grading up		b. Inbreeding		
c. Top crossing		d. Rotational crossing	g	
76. Breeding policy adopte	ed for buffalo improven	nent in Tamil Nadu		
a. Grading up		b. Selective breeding		
c. Both a & b		d. Crossbreeding		
77. Which of the following	g is a part of National C	Cattle Breeding Policy	in India	
a. Grading up		b. Crossbreeding		
c. Selective breeding		d. All the abo	ve	
78. Heritability is the propo	erty of			
a. Population b. Tra	it c. Environme	ent d. All the abo	ve	
79. Which of the following	statement is true abou	t multiple allelism		
a. More than two alte	ernative form of a gene	located on the same lo	ocus of the	
homologous chromo	some			
b. Multiple alleles ar	e produced by mutation	1		
c. Multiple alleles are	e found in the population	on, not in the single in	dividual.	
d. All are true				
80. Ex-situ conservation m	eans			
a. Organized herd ou	tside breeding tract e.g	. Research station, Zoo	etc.	

	b. Cryopreservation of	of sperms, oocytes, em	bryos, soma	tic cells, stem cells etc.
	c. Storage of DNA &	live tissue		
	d. All the above			
81. T	The percentage of indiv	viduals with a given ge	notype that o	expresses the expected
p	henotype is known as			
	a. Epistasis		b. I	Expressivity
	c) Penetrance		d. Recessiv	ve
82. P	Progeny testing is used	for the selection of		
	a. Dam	b. Sire	c. Son	d. Daughter
83. C	Chromosome numbers	in water buffalo (Buba	lus bubalis)	is
	a. 60	b. 50	c. 48	d. 54
84. I	nheritance of X-linked	character is through		
	a. Male parent		b. Female	parent
	c. Both a & b		d. None	
85. C	Genotypic frequency of	f offspring will depend	upon	
	a. Gene frequencies of	of parents		
	b. Genotypic frequen	cies of parents		
	c. Both Gene and Gen	notypic frequencies of	parents	
	d. None of the above			
86. I	n Hardy Weinberg equ	ilibrium, genotypic fre	equency of h	eterozygote will be
h	ighest when gene freq	uency of one gene is		
	a. 0.60	b. 0.40	c. 0.50	d. 0.9
87. T	Type of cross breeding	which exploits 100% i	naternal, pat	ternal as well as individual
h	eterosis			
	a. Four breed crosses	S	b) Double	two breed crosses
	c. Rotational crossing		d. Both a &	k b
88. C	Outcrossing within a he	erd by use of selected s	ires	
	a. Top crossing		b. S	Selective breeding
	c. inter se mating		d. (Grading up
89. T	The primary spermatoc	yte contains		
	a. '2n' number of chr	romosome	b. '	n' number of chromosome

c. '4n' number of chromosome	d. '3n' num	ber of
chromosome		
90. The diagrammatic representation of the chron	nosomes of an indivi	dual is called
a. Idiogram	b. Karyotyp	e
c. Both a & b	d. None of	the above
91is morphological represen	ntation of somatic chi	romosomes of an
individual in descending order.		
a. Idiogram	b. Karyotyp	pe
c. Both a & b	d. None of	the above
92. Karyotype are made using		
a. Early prophase chromosome	b. Metapha	se chromosome
c. Anaphase chromosome	d. Telophas	e chromosome
93. Inbreed tester line is necessary in		
a. Recurrent selection	b. Reciprocal recur	rent selection
c. Diallel crossing	d. Partial di	allel crossing
94. Most prolific Indian goat breed is		
a. Malabari b. Kanniadu	c. Jamnapari	d. Black
Bengal		
95. The two strands of DNA double helix are		
a. Coaxial	b. Perpendi	cular to each other
c. Complementary to each other	d. Identical	each other
96. A chromosomal aberration that affects the fe	rtility of daughter is	
a. Robertsonian translocation	b. Addition	
c. Random union of chromosome	d. Deletion	
97. Lactation length in cattle is standardized to		
a. 300 days basis b. 305 days basis	c. 365 days basis	d. 330 days
basis		
98. DNA synthesis occurs in		
a. 3'>5' direction	b. 5'>3	' direction
c. Both	d. None of	the above

99.	Rotational crossing i	s favoured in				
	a. Swine	b. Horse	c. Chicken	d. Camel		
100.	Systemic process wh	ich tend to alte	r the gene frequency			
	a. Selection	b. Migration	c. Mutation	d. All of the		
	above					
101.	;	gives the proba	bility that two genes are id	entical by descent		
	a. Coefficient of rela	tionship	b.	Inbreeding		
	coefficient					
	c. Both		d.	None of the above		
102.	An inbred line has a	minimum inbre	eeding coefficient of			
	a. 0.25	b. 0.375	c. 0.5	d. 0		
103.	Superiority of selecte	ed parents over	the population is			
	a. Response to select	ion	b. Selection	b. Selection differential		
	c. Intensity of selecti	on	d. Accura	cy of selection		
104.	Standardized selection	on differential is	s called as			
	a. Response to select	ion	b. Selection	on intensity		
	c. Generation interva	1	d. Accuracy of se	election		
105.	Traits which show of	liscrete variation	on but which is influence	d by many pairs of		
g	enes is known as					
	a. Sex limited traits		b. Qualita	tive traits		
	c. Quantitative traits		d. Thresh	old traits		
106.	Commercial layer ch	icks are evolve	d out of			
	a. Two way crossing		b. Criss c	rossing		
	c. Three way crossing	g	d. Four w	ay double crossing		
107.	The wall eyed buffal	o breed				
	a. Bhadawari	b. Nili-Ravi	c. Murrah	d. Toda		
108.	Appearance of ances	tral traits after	some generation is known	as		
	a. Mutation	b. Atavism	c. Suppression d. None o	f the above		
109.	Exchange of parts be	tween non-hon	nologous chromosome is k	nown as		
	a. Crossing over	b. Linkage	c. Translocation	d.		
	Reversion					

110.	The word 'gene', 'gen	notype' and 'phenotyp	e' was coined	by
	a. William Batson		b. W	L. Johansen
	c. T.H. Morgan		d. T.	Boveri
111.	Dairy search index is	otherwise called as		
	a. Sunderasan index		b. To	mar index
	c. Rice index		d. BI	LUP
112.	The most accurate aid	to selection is		
	a. Individual selection	ı	b. Progeny to	esting
	c. Pedigree selection		d. Sil	selection
113.	To increase the milk	production of the inc	digenous dairy	cattle breeds in plains
m	nost suitable breed for	crossing is		
	a. Brown Swiss	b. Danish	c. Jersey	d. Holstein-Friesian
114.	Morphologically the	Y chromosome of Bos	indicus bulls	is
	a. Metacentric b. Acro	ocentric c. Sub	metacentric	d. Telocentric
115.	For carcass traits in sh	neep the practical aid t	o selection is	
	a. Family selection		b. Pro	ogeny testing
	c. Sib selection		d. Inc	lividual selection
116.	Dolly was created by			
	a. Embryo transfer			
	b. Nuclear transfer fro	om embryonic stem ce	lls	
	c. Nuclear transfer fro	m cultured foetal cell	ls	
	d. Nuclear transfer fro	om a quiescent mamm	ary cells	
117.	Apparel wool breed o	f Indian sheep		
	a. Nilagiri	b. Magra	c. Chokla	d. Bikaneri

Answer Key

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
b	b	c	b	a	a	c	c	a	a
11.	12.	13.	14.	15.	16.	17.	18.	19.	20.
d	b	С	С	d	a	b	a	a	a
21.	22.	23.	24.	25.	26.	27.	28.	29.	30.
d	a	c	a	a	c	a	d	a	d
31.	32.	33.	34.	35.	36.	37.	38.	39.	40.
a	d	b	a	С	a	b	a	b	С
41.	42.	43.	44.	45.	46.	47.	48.	49.	50.
a	b	c	d	d	a	d	d	d	a
51.	52.	53.	54.	55.	56.	57.	58.	59.	60.
d	a	d	a	d	a	d	a	d	a
61.	62.	63.	64.	65.	66.	67.	68.	69.	70.
a	a	d	d	d	d	c	d	a	b
71.	72.	73.	74.	75.	76.	77.	78.	79.	80.
a	b	a	a	d	c	d	d	d	d
81.	82.	83.	84.	85.	86.	87.	88.	89.	90.
c	b	b	c	a	c	d	b	a	a
91.	92.	93.	94.	95.	96.	97.	98.	99.	100.
b	b	a	d	c	a	b	b	a	d
101.	102.	103.	104.	105.	106.	107.	108.	109.	110.
b	b	b	b	d	d	b	b	c	b
111.	112.	113.	114.	115.	116.	117.			
a	a	c	b	c	d	a			

DEPARTMENT OF VETERINARY AND ANIMAL HUSBANDRY

EXTENSION EDUCATION

1	The per capita availability of i	niik	India during 2018-19		
a)	394 grams/ day	c)	340grams/ day		
b)	285 grams/ day	d)	291 grams/ day	()
2.	The per capita availability of t	nilk	for Tamil Nadu during 2018-19		
a)	322 grams/ day	c)	154 grams/ day		
b)	1100 grams/ day	d)	281 grams/ day	(`
U)	1100 grains/ day	u)	201 grams/ day	(,
3.	The milk production in India				
a)	187. 5 million tons	c)	170.8 million tons		
b)	140 million tons	d)	165 million tons	()
1	As now 2019 10 paried the high	hoot	mills per agains available state in Ir	rdio io	
4.			milk per capita available state in Ir	iuia is	
a)	Hariyana	c)	Tamil Nadu		
b)	Punjab	d)	West Bengal		
_)	
5.	Total egg production in India	for th			
a)	103. 2 billion in numbers		c) 140 billion in numbers		
b)	170 billion in numbers		d) 132 billion in numbers	()
6.	As par 2010 livesteel consus	tho t	total livestock population in India is		
				·	
a)	535.78 million	c)	512.06 million	,	`
b)	459.60 million	d)	555.20 million	()
7.	The per capita availability of e	egg f	or India during 2018-19		
a)		c)	71 egg per annum		
b)	59 egg per annum	d)	73 egg per annum	()
0)	37 egg per unnum	u)	75 egg per unnum	(,
8.			otal Cattle population in India is		_
a)	190.90 million	c)	192.49 million		
b)	170 million	d)	180.90 million	()
9.	Compare to 2012 livestock Co	mana	s in 2019 livestock population is de	arassad in	
<i>J</i> .	percentage	nsus	s in 2019 investock population is de	creased iii	
a)	6.0 %	c)	4.60 %		
b)	7.02%	,	3.0 %	()
0)	7.0270	u)	3.0 70	(,
10.	Total Milk Production of world	ld du	ring 2017-18		
a)	827.88 million tonnes	c)	600.1 million tonnes		
b)	700 million tonnes	d)	820.11 million tonnes	()
11	CDD contribution 1 1! (1		annual desi: 20	17 10	
11.	•		generalduring 20	01/-18	
a)	4.1%	c)	5.1%		
b)	4.3%	d)	6%	()
12.			agriculture during	2017-18	
a)	28.2%	c)	25.6%		

b)	27.4%	d)	29.8%			()
13.	Highest milk producing state in	Inc	dia is				
a)		c)	Tamil N				
b)		d)	Uttar Pr			()
,		,				`	,
14.	In which year, India Veterinar	y C	Council A	ct was formed _			
a)		2)	1990				
b)	2019	d)	2000			()
			0				
15	In India, Animal Welfare Boa			d in the year of		_	
a)		c)	1972				`
b)	1965	d)	1969)
16.	As per 20 th Livestock Census,	the	position o	of Tamil Nadu	n Poultry pop	oulation is	
۵)	First	a)	Second				
a) b)		c) d)	Fifth			(`
U)	routui (u)	riiui			(,
17	In India, Wildlife Protection ac	t wz	as enacted	lon			
a)		c)	1983	· on			
b)		d)	2005			()
0)	2010	,	2003				,
18	Who is the current chairman of	ani	mal welfa	are board			
a)				Chaudhary		-	
b)				ese kurien		()
19	Mischief by killing, poisoning,	mai	iming or i	rendering useles	s any animal	is punishable	
	under sections		_				
a)	428 and 429 I.P.C		c)	125 and 126 I.I			
b)	328 and 329 I.P.C		d)	95 and 96 I.P.C		()
	- (1-)						
20.	Bestiality is punishable under s	ecti			-		
a)	177 I.P.C		c)	77 I.P.C		,	,
b)	377 I.P.C		d)	187 I.P.C.		()
21.	PCA act means						
a)	Prevention of Cruelty to animal	ls	c)	Prevention of	Culling of		
				Animals			
b)	Protection of Cruelty to Anim	nals	d)	Prevention of	Crime to	()
				Animals			
22.	The performing animals rules i	s tr					
a)	1973		c)	1979			
b)	1975		d)	1974		()
,			/			`	,
23.	The Famous NGO in Tamil N	Jadı	1				
a)	Blue Cross of India		c)	Animal Aid U	nlimited		
b)	'Puddha Society for Animal W	01£0	ra 4)	Lat's Live Tee	athar	(`
b)	'Buddha Society for Animal W	CIIa	re d)	Let's Live Tog	Culei	()

24. a)	Which year Animal Birth Control (Do 2001	gs) R c)	ules, is enacted 2008		
b)	2002	d)	2009	()
25.	In which year the Prevention and Cont Animals Act is enacted	rol of	Infectious and Contagious Di	seases in	
a)	2001	c)	2009		
b)	2018	d)	2010	()
26. a)	Animal Birth Control (Dogs) Rules w 2009	as pa	ssed in the year 2008		
b)	2002	d)	2001	()
27.	In which year the amendment was made of animals category	le for	inclusion of Jallikattu bull un	nder performin	ıg
a)	2011	c)	2008		
b)	2002	d)	2009)
28. a)	Any animal that's diseased, fatigued to The Prevention of Cruelty to Draught and Pack Animals Rules, 1965	hat is c)	used for transport is punishal The Prevention of Cruelty to Animals (Licensing of Farriers) Rules, 1965	ole under rule	of
b)	The Transport of Animal Rules, 1973	d)	The Performing animals (Registration) Rules, 2001	()
29. a)	The per capita availability of egg for 322 eggs per annum	Tamil	Nadu during 2018-19 394 eggs per annum		
b)	372 eggs per annum	d)	265eggs per annum	()
30.	Which category of animal are not allo Rules, 1973	wed :	for transport as per the Transp	ort of Animal	1
a)	Advance stage of Pregnant and estrus	c)	Young		
b)	Milking animal	d)	Kids	()
31.	Use of spiked biked prohibited under	the ru	ıle of		
a)	The Prevention of Cruelty to Draught and Pack Animals Rules, 1965	c)	The Prevention of Cruelty to Animals (Licensing of Farriers) Rules, 1965		
b)	The Performing animals (Registration) Rules, 2001	d)	The Transport of Animal Rules, 1973	()
32.	Prohibition of markets, Fairs exhibition breaks under law of	n. etc	in the controlled areas during	; disease out	
a)	The Livestock Importation Act, 1898	c)	The Prevention and Control of Infectious and Contagious Diseases in		

			Animals Act, 2009		
b)	The Prevention of Cruelty to Animals, 1960	d)	Food Safety and Standards Act, 2006	()
33.	What is punishment for poaching, ill Act, 1972	legal	trade at first time under Wildli	ife Protection	
a)	Three years imprisonment or fine Rs. 10,00,000	c)	Three years imprisonment or fine Rs. 30,00,000		
b)	No punishment	d)	One year imprisonment or Rs. fine 10,000	()
34.	Penalties for placing infected animal of Control of Infectious Disease in Anim			vention and	
a)	Fine Rs.2000 or one month imprisonment	c)	Three years imprisonment or fine Rs. 30,00,000		
b)	Fine Rs.5000 or one month imprisonment	d)	One year imprisonment or Rs. fine 10,000	()
35. a)	Pioneered in the setting up of the Anii Shrimati Rukmini Devi	mal V	Velfare Board in India Gauri Maulekhi		
b)	Anoopa Anand	d)	MD. Zabi Khan	()
36. a)	Tamil Nadu rank in egg production Second	c)	Third		
b)	Fourth	d)	First	()
37. a)	A common name for non-profit anima SPCA	l wel	fare organizations around the v Blue cross of India	vorld	
b)	Animal welfare board	d)	PETA	()
38. a)	It was the first Society for the Prevents		Cruelty to Animals Blue cross of India		
b)	Animal welfare board	d)	PETA	()
39.	The fullform of SPCA				
a)	Society for the Prevention of Cruelty to Animals	c)	Society for the Protection Cruelty to Animals		
b)	Society for the Prevention of Crime to Animals	d)	Society for the Prevention of Control to Animals	()
40.	Prohibiting certain forms of animal fig	ghting	is one of the issues regulated	by the:	
a)	The Livestock Importation Act, 1898	c)	The Prevention and Control of Infectious and Contagious Diseases in Animals Act, 2009		
b)	The Prevention of Cruelty to	d)	Food Safety and Standards	()

	Animals, 1960		Act, 2006		
41. a)	What is the rank of India in livestock	popul c)	ation in the world? First		
b)	Seven	d)	Eight	()
42.	When the first livestock census was c	ondu	cted in India		
a)	1910	c)	1930		
b)	1925	d)	1919	()
43.	SIP stands for				
a)	Sanitary Import Permit	c)	Sanitary Intensive Permission		
b)	Successful information permission	d)	Sanitary Inclusive Permit	()
44.	AQCS stands for				
a)	Animal Quarantine and Certification Services	c)	Aquatic Quarantine and Certification Services	()
b)	Animal Quality and Certification Services	d)	Annual Quarantine and Certification Services	())
45.	As per 20 th Livestock Census the posi-	tion o	of Tamil Nadu Sheen nopulation	nn	
a)	First	c)	Fourth	,,,,	
b)	Eight	d)	Fifth	()
46.	According to Animal Birth Control Ru	ules 2	001 the age for sterilization of	dog is	
a)	Three months	c)	Four months		
b)	Six months	d)	Five months	()
47.	For punishment for teasing of wild an			ct, 1972	
a)	Three Years or fine upto Rs. 25,000	c)	One Years or fine upto Rs. 25,000		
b)	Two Years or fine upto Rs. 5,000	d)	Three Years or fine upto Rs. 35,000	()
47.	Punishment for using oxytocin to inc	luce r	nilk llegal		
a)	Three Years or fine upto Rs. 25,000	c)	One Years or fine upto Rs. 25,000	()
b)	Two Years or fine upto Rs. 5,000	d)	Three Years or fine upto	()

Rs. 35,000

48.	The Export value of India Livestock	and L	ivestock products during 2	018-19	
a)	230,772,619 lakhs	c)	20,000 lakhs	()
b)	40,000,00 lakhs	d)	430,772,619 lakhs		
49.	Voluntarily hurting by means of shunder IPC sections	nooting,	stabbing or cutting of an	animal is pun	ishable
a)	IPC 336	c)	IPC 226)
b)	IPC 338	d)	IPC 440		
50.	Tamil Nadu ranks in meat producti	ion (201	18-19)		
a)	Fourth	c)	Fifth	()
b)	Sixth	d)	Seventh		
51.	NPBB was established in the year				
a)	2014	c)	2010	()
b)	2012	d)	2000		
52.	NCBB was initiated by merging wh		_	,	
a)	NPCBB	c)	IDDP	()
b)	SIQ & CMP and A-C	d)	All the above		
52	Main this give of NDDD and a second				
53. a)	Main objective of NPBB programm Quality AI at doorstep	e 1s c)	Fodder supply	()
b)	Quality treatment	d)	Advisory services		
54.	Ministry of Fisheries, Animal husba	andry a	nd Dairving was formed in	the vear	
a)	2019	c)	2018	()
b)	2012	d)	2015		
55.	Which one of the following is know	vn as sa	ving certificate scheme for	farmers	
a)	Kisan Vikas Patra (KVP)	c)	Krishi Ambani Bima Yojana	()
b)	Garam Sinachi Yojana	d)	PMSGSY		

56. a)	Kisan Vikas Patra (KVP) was launche 1998	ed by In c)	dia post in the year 2000	()
b)	1995	d)	2002		
57.	Krishi Ambani Bima Yojana was star		•	/	`
a)	2014	c)	2018	()
b)	2010	d)	2016		
58.	Soil health card scheme				
a)	Feb 2015	c)	April 2015	()
b)	Mar 2015	d)	May 2015		
59.	Deen Dayal Upadhaya Grameen Kaus	shalva Y	Yoiana mainly insists		
a)	Youth empowerment	c)	Women employment	()
b)	Women empowerment	d)	Youth employment	`	
60.	Deen Dayal Upadhaya Grameen Kaus	halya Y	Yojana was established in the	vear	
a)	2000	c)	2014	()
b)	2018	d)	2020		
61.	Pradhan Mantri Fasal Bima Yojana is	related	to		
a)	Fodder cultivation	c)	Animal purchase	()
b)	New Crop Insurance Scheme	d)	Animal insurance scheme	`	
62.	PM Kisan Maan Dhan Yojana (PM-K	MY) is	meant for		
a)	Old age pension of Rs 3000 /month	c)	Pension scheme for all	()
b)	Old age pension of Rs 2000 / month	d)	Disabled pension of Rs 3000		
63.	Livestock Insurance was started in				
a)	11 th and 12 th five year plan	c)	13 th five year plan	()
b)	9 th and 10 th five year plan	d)	10 th and 11 th five year plan	`	
64.	Livestock Insurance was implemented	l all ove	er the country in the year		
a)	2012	c)	2016	()
b)	2014	d)	2010		
65.	National livestock mission was launch	ned in th	ne year		
a)	2014-15	c)	2000-01	()
b)	2012-13	d)	2011-12		

66.	Rashtriya Pashudhan Vikas Yojana w	as start	ed in the year		
a)	2010	c)	2018	()
b)	2019	d)	2014		
67.	Startup India Scheme was established	l to start	new business during the year		
a)	2015	c)	2018	()
b)	2017	d)	2019		
68.	NMSA stands for				
a)	National Mission of Supporting Agriculture	c)	National Mission of Sustainable Aquaculture	()
b)	National Mission of	d)	National Mission of		
,	Standardization Agriculture	,	Sustainable Agriculture		
69.	ARYA (Attracting and Retaining You	ıth in A	griculture) was launched by		
a)	GOI	c)	ICAR	()
b)	Ministry of Agriculture	d)	IARI		
70.	Zero budget natural farming (ZBNF)	was sta	rted in the year		
a)	2018	c)	2010	()
b)	2019	d)	2017		
71.	Main objective of National Mission fo		•	S	
a)	More crop per drop	c)	More profit	()
b)	Reduce cost of production	d)	More production		
72.	Pradhan Mantri Kaushal Vikas Yojan				
a)	Employment creation	c)	Job development initiative	()
b)	Skill development initiative	d)	Agriculture and AH		
			development initiative		
73.	Pradhan Mantri Kaushal Vikas Yojan			r	
a)	2000	c)	2016	()
b)	2010	d)	2019		
74.	NRLM stands for				
a)	National Rural Livelihood Mission	c)	National Rural Living	()
			Mission		
b)	National Rural Livestock Mission	d)	National Rural Livelihood Management		
75.	Kisan credit cards scheme was started		•••	,	
a)	2015	c)	2000	()
b)	2012	d)	1998-99		

76. a)	Dairy Processing & Infrastructure De 2013	evelopm c)	nent Fund (DIDF) was started 2019	in the eyar)
b)	2012	d)	2017		,
77. a)	Rashtriya Gokul Mission (RGM) was 2006	s launch c)	ned in the year 2010	()
b)	2014	d)	1999		
78. a)	Gopal Ratna awards meant for Farmer maintaining best cross breed animal	c)	High producing farmer	()
b)	Farmer maintaining the best herd of Indigenous Breed	d)	Farmer practicing integrated farming		
79.	National Animal Disease Control Proof	ogramn	ne (NADCP) was launched v	with the object	tive
a) b)	Eradicating FMD & Brucellosis FMD	c) d)	All livestock diseases Brucellosis	()
80. a) b)	National Animal Disease Control Pro 2007 2008	ogramm c) d)	e (NADCP) was launched in 2015 2019	the year)
81. a) b)	e- pashuhaat portal is related to Bovine breeders Livestock scheme	c) d)	Animal Health Livestock Census	()
82. a)	The Objective of National Dairy Pl Improving livelihood of rural farmers	an I c)	Increase population of dairy animals	()
b)	Increase productivity of milch animals	d)	Control and prevention of diseases in dairy		
83. a)	The abbreviation of NITI Aayog National Institute for Transforming India	c)	National Institute for Transferring India	()
b)	National Information for Transforming Industries	d)	National Industries for Transforming India		
84. a)	What is meant by marginal cost Change in total cost/Change in total output	c)	Change in marginal cost/Change in total output	()
b)	Change in total output / Change in total cost	d)	Change in total cost/Change in marginal		

output

85.	A summary statement of all the asset is called as	s and lia	abilities of a business at a give	en point of the	ime
a)	Net Worth statement	c)	Fixed Cost	()
b)	Profit and Loss statement	d)	Capital Budgeting		
86.	A financial statement employed to as	sess the	_	SS	
a)	Net Worth statement	c)	Fixed Cost	()
b)	Profit and Loss statement	d)	Capital Budgeting		
87.	Expansion for IRR in economics				
a)	Internal Rate of Returns	c)	Indian Rate of Reading)
b)	Internal Registered Returns	d)	Indian Rupee Rate		
88.	Viable Livestock Project should have				
a)	BCR more than one, negative NPW, IRR greater than the opportunity cost of capital	c)	BCR less than one, positive NPW, IRR greater than the opportunity cost of capital)
b)	BCR less than one, positive NPW, IRR greater than the opportunity cost of capital	d)	BCR more than one, positive NPW, IRR greater than the opportunity cost of capital		
89.	Undiscounted measures in project ap	praisal t	techniques		
a)	Pay back period	c)	Average annual proceeds of rupee outlay	()
b)	Internal Rate of Returns	d)	A and B		
90.	Fixed cost is otherwise called as				
a)	Sunk cost	c)	Variable costs	()
b)	Explicit cost	d)	Opportunity cost		
91.	The cost which varies with level of pr	oductio			
a)	Over head charges	c)	Total costs	()
b)	Marginal cost	d)	Variable cost		
92.	Minimum of average total cost is called	ed as			
a)	Break-Even Point	c)	Shut-Down Point	()
b)	Marginal Cost	d)	Opportunity cost		
93.	Which value is desirable in Hen Hou				
a)	Values of 285 or 80%	c)	Values of 150 or 80%	()
b)	Values of 200 or 60%	d)	Values of 265 or 60%		

94. a)				e over				of a b	roile c)					used i Efficie		()
											Facto	or							
b)	В	roile	r Fai	rm Eff	ficier	ncy I	ndex		d)		Net 1	Feed	Effic	ciency	Index				
95.					mote	er in	start	ing a l											
a)		urrei							c)		Marg	-		y		()
b)	Ir	ndire	ct co	st					d)		Selli	ng co	ost						
96.				ll Cen	tre N	umb	er is												
a)		800-							c)		1800					()
b)	1	800-1	180-	1561					d)		1800)-180	-166	6					
97.					in th	e val	ue o	f an as											
a)		epre		on					c)		Appı		tion			()
b)	V	'alue							d)		Liab	ility							
98.	G	DP	and	GNP	belo	ngs													
a)	It	ncom	e the	eory					c)		Price	the	ory			()
b)	C	and	D						d)		Micr	o eco	onom	nics					
99.	N	let re	turn	is mea	asure	ed by													
a)	G	iross	inco	me - I	Expe	nditu	ıre		c)		Gros	s inc	ome	- Prof	it	()
b)				me –	Capi	tal			d)		Expe	enditi	ure -	Gross					
	E	xpen	ditu	re							inco	me							
100.	. C	rop l	oan	is an e	exam	ple o	of												
a)		_		liabil					c)		Med	ium 1	term	liabilit	y	()
b)	L	ong 1	term	Asset					d)		Med	ium 1	term	asset					
								AN	ISWI	ភ ា ខ េ	ZEV(2							
4								AIN				<u> </u>				I	Ι.		
1	A	11	A	21	A	31	A	41	A	51	A	61	В	71	A	81	A	91	D
2	A	12	В	22	A	32	В	42	D	52	D	62	A	72	B	82	В	92	A
3	A	13	A	23	A	33	A	43	A	53	A	63	D	73	<u>C</u>	83	A	93	A
4	B	14	A	24	A	34	A	44	A	54	A	64	В	74	A	84	A	94	B
5	A	15	A	25	B	35	A	45	C	55	A	65	A	75	D	85	A	95	C
6	A	16	A	26	D	36	D	46	C	56	A	66	B	76	D B	86	B	96	A
7 8	A C	17 18	A C	27	A B	37	A	47	A	57 58	A	67 68	A D	77 78	В	87 88	A D	97 98	A
9	B	19	A	29	D	39	A	49	В	59	D	69	C	79	A	89	D	99	A
-	<u>~</u>		D		_		<u> </u>		C		<u> </u>		D	,,	D.	0,	_		<u> </u>

ANIMAL NUTRITION

- 1. Following one is a production value type of feeding standard
 - a) Hay standard
 - b) NRC
 - c) AFRC
 - d) Scandinavian Feed Unit
- 2. Deficiency of ----- mineral in diet leading to orthopedic diseases (DOD) in growing horses.
 - a) Zinc
 - b) Manganese
 - c) Copper
 - d) Selenium
- 3. Protein value is highest in
 - a) Maize
 - b) Soybean meal
 - c) Fish meal
 - d) Rice bran
- 4. ----should be supplied freely to the working horse feed because considerable quantities are excreted in the sweat.
 - a) Mineral mixture
 - b) Salt
 - c) Probiotics
 - d) Oil
- 5. The "Polyneuritis" is caused by the deficiency of ----- in poultry.
 - a) Folic acid
 - b) Zinc
 - c) Thiamine
 - d) Copper
- 6. The concentrate and forage ratio of the hard working horse feed is
 - a) 30:70
 - b) 50:50
 - c) 70:30
 - d) 0:100
- 7. The following one is not the reason for laying large size egg by the layer bird
 - a) High energy feed
 - b) High methionine
 - c) High temperature
 - d) High linoleic acid
- 8. The following is an example of prebiotics
 - a) Fructan-oligosaccharides
 - b) Lactobacillus
 - c) Sachromyces
 - d) Amprolium
- 9. The common coccidiostat used in the broiler feed is
 - a) Oxytetracycline

- b) Gentamycin
- c) Lasalocid
- d) Xanthophill
- 10. Addition of following one to the feed will reduce dustiness of feed and laminitis incidence in horses
 - a) Grain
 - b) Wheat bran
 - c) Vegetable oil
 - d) Antibiotics
- 11. A condition called Stiff lamb disease caused by
 - a) Vitamin A
 - b) Vitamin K
 - c) Vitamin E
 - d) Vitamin B₁
- 12. Rapeseed meal contains an anti-nutritional factor which severely harm the ducks.
 - a) Gossipol
 - b) Mimosine
 - c) Erucic acid
 - d) Nitrate
- 13. The following one will affect the egg shell quality
 - a) Temperature
 - b) Bird age
 - c) Nutrition
 - d) All the above
- 14. Perosis or slipped tendon in chicks is caused by the deficiency of
 - a) Manganese
 - b) Folic acid
 - c) Choline
 - d) All the above
- 15. Rodents are ----- wild animals
 - a) Carnivorous
 - b) Herbivorous
 - c) Omnivorous
 - d) None of the above
- 16. The energy requirement of the broiler finisher ration (BIS) is ------ Kcal /kg.
 - a) 2800
 - b) 3000
 - c) 3800
 - d) 3200
- 17. An additional quantity of nutrient given over the requirement is
 - a) Nutrient allowance
 - b) Nutrient requirement
 - c) Additives
 - d) Enzymes

18. The energy	y requirement of the grower chicken ration is Kcal /kg a) 2500
	b) 2800
	c) 3000 d) 2500
10 Dinds aven	d) 3500
19. Birds expe	eriencing diseases require an increase intake of some nutrients such as
	a) Prebiotics
	b) Enzymes
	c) Antibiotics
00 m c 11	d) Vitamins
	ving one may be added in the layer chicken diet to meet out the calcium
requirements	\ C
	a) Gypsum
	b) NaHCO ₃
	c) Shell grit
0.1 FPI	d) Silica
21. The exact	quantity of nutrient given to the animal to meet out optimum production is
	a) Nutrient requirement
	b) Nutrient allowance
	c) Enzyme
	d) Antibiotics
	ant of drinking water required for livestock becomes much higher as the
temperature ri	
	a) 25 ° C
	b) 12 ° C
	c) 5 ° C
	d) 0 ° C
23. The follow	ving one is not a feed additive
	a) Oilcake
	b) Antibiotics
	c) Prebiotics
	d) Binders
24. The follow	ving one is added in the poultry diet as feed additives to minimize the
diseases and in	mprove the growth.
	a) Bacitracin
	b) Enzyme
	c) Pellet binders
	d) Emulsifiers
25. Addition of	of fat in the poultry diet will
	a) Increase calorific value of feed
	b) Increase growth
	c) Decrease growth
	d) Increase fertility
26. The energy	y requirement of the creeper ration for piglets is Kcal /kg
	a) 3360
	b) 2200

c) 2800 d) 2000 27.Creep feed for piglet is otherwise known as a) Pre-starter feed b) Starter feed c) Grower feed d) Finisher feed 28. Live microbial culture added as feed additive in the pig feed is a) Sacchromyces spp. b) Mannon oligosaccharides c) Streptococci d) E-coli 29. Antibiotics are added in the livestock ration as growth promoting agent at a) Sub-therapeutic level b) Therapeutic level c) Above therapeutic level d) None of the above 30. The energy requirement of the guinea pig ration is ----- Kcal /kg a) 2800 b) 2200 c) 2000 d) 3500 31. Restricted feeding is recommended commonly in ----- stage of poultry a) Chick b) Grower c) Starter d) Layer 32. The best cereal source for the horses is a) Wheat b) Oats c) Horse gram d) Rice 33. The pH of a very good silage is a) 3.5-4.2 b) 4.2-4.5 c) 4.5-4.8 d) 4.8-5.2 34. The "curled toe paralysis" is deficiency of ----- in poultry. a) Folic acid b) Manganese c) Thiamine

d) Riboflavin 35. Oxidative stress is more common in

> a) Poultry b) Horse c) Pig

- d) Cattle
- 36. Example for comparative type feeding standard is
 - a) Kellner feeding standard
 - b) NRC
 - c) AFRC
 - d) Scandinavian feed unit
- 37. Higher energy value is present in
- a) Maize
- b) Fish meal
- c) Oilcake
- d) Rice bran
- 38. The common coccidiostat used in the broiler feed is
 - a) Oxytetracycline
 - b) Gentamycin
 - c) Amprolium
 - d) Xanthophill
- 39. Comparative type of feeding standard for ruminant is
- a) Hay standard
- b) Morrison standard
 - c) Kellner standard
 - d) Armsby standard
- 40. The "star gazing posture" is deficiency of ----- in poultry.
 - a) Folic acid
 - b) Manganese
 - c) Thiamine
 - d) Riboflavin
- 41. An emaciated condition Marasmus caused by deficiency of
 - a) Zinc
 - b) Cobalt
 - c) Iodine
 - d) Manganese
- 42. Example for digestible nutrient type of feeding standard is
 - a) Kellner feeding standard
 - b) Indian standard
 - c) AFRC
 - d) Scandinavian feed unit
- 43. A deficiency disorder 'scurvy' is caused by
 - a) Vitamin B
 - b) Vitamin C
 - c) Vitamin K
 - d) Vitamin D
- 44. A hormone involving regulation of calcium metaboliosm in the body is
 - a) Thyroxine
 - b) Paratharmone
 - c) Oxytocin

d) Vasopressin 45. Outer coarse coat of the grains is a) Bran b) Gluten c) Hull d) Polish 46. Cyanogens is found more in----a) Soyabean meal b) Maize c) Sorghum d) Linseed 47. Anaemia mainly occurs in livestocks due to deficiency of a) Iron b) Folic acid c) Copper d) Zinc 48. A substance depressing dietary utilization of protein is a) Saponin b) Oxalate c) Nitrate d)Mimosine 49. Rapeseed meal contains - which severely harm the livestock and poultry. a) Oxalic acid b) Glucosinolates c) Phytic acid d) Tannins 50. The RQ value of carbohydrate is -----a) 1.0 b) 0.8 c) 0.7 d) 0.5

a) Gossipol

severely harm the ducks.

- b) Mimosine
- c) Erucic acid

a) Methionine b) Lysine c) Valine d) Arginine

d) Nitrate

51. A deficient level of essential amino acid in soybean meal is

52. Rapeseed meal contains an anti-nutritional factor such as ------which

- 53. Example for the prebiotics is a) Fructo-oligosaccharides
 - b) Lactobacillus
 - c) Sachromyces
 - d) Amprolium
- 54. Addition of following one to the feed will reduce dustiness of feed and laminitis incidence of the horses
 - a) Grain
 - b) Wheat bran
 - c) Vegetable oil
 - d) Antibiotics
- 55. Toxicity of aflatoxin is greatest for
 - a) Chicks
 - b) Ducklings
 - c) Turkey poults
 - d) Gooslings
- 56. The common coccidiostat used in the broiler feed is
 - a) Oxytetracycline
 - b) Gentamycin
 - c) Amprolium
 - d) Xanthophill
- 57. Urea enrichment of paddy straw done with -----% of urea.
 - a) 4
 - b) 8
 - c) 12
 - d) 16
- 58. The "star gazing posture" is deficiency of ----- in poultry.
 - a) Folic acid
 - b) Manganese
 - c) Thiamine
 - d) Riboflavin
- 59. Rabbits are able to tolerate upto -----% crude fibre in the diet.
 - a) 5
 - b) 10
 - c) 15
 - d) 20
- 60. Nitrogen and Sulphur ratio needed for optimum dietary utilization of Urea is
 - a) 5:1
 - b) 10:1
 - c) 15:1
 - d) 20:1
- 61. The following one is added in the poultry diet as feed additives to minimize the diseases and improve the growth.
 - a) Bacitracin
 - b) Enzyme
 - c) Pellet binders

62. The energy requirement of the creeper ration for piglets is
c) 2800 d) 2000 63. Creep feed for piglet is otherwise known as a) Pre-starter feed b) Starter feed c) Grower feed d) Finisher feed 64. Antibiotics are added in the ration as growth promoting agent at a) Sub-therapeutic level b) None of the above c) Therapeutic level d) Above therapeutic level 65. Live microbial culture added as feed additive in the pig feed is a) Sacchromyces spp. b) Mannon oligosaccharides c) Streptococci d) E-coli 66. The energy requirement of the grower chicken ration is
d) 2000 63. Creep feed for piglet is otherwise known as a) Pre-starter feed b) Starter feed c) Grower feed d) Finisher feed 64. Antibiotics are added in the ration as growth promoting agent at a) Sub-therapeutic level b) None of the above c) Therapeutic level d) Above therapeutic level d) Above therapeutic level 65. Live microbial culture added as feed additive in the pig feed is a) Sacchromyces spp. b) Mannon oligosaccharides c) Streptococci d) E-coli 66. The energy requirement of the grower chicken ration is
63. Creep feed for piglet is otherwise known as a) Pre-starter feed b) Starter feed c) Grower feed d) Finisher feed 64. Antibiotics are added in the ration as growth promoting agent at a) Sub-therapeutic level b) None of the above c) Therapeutic level d) Above therapeutic level d) Above therapeutic level 65. Live microbial culture added as feed additive in the pig feed is a) Sacchromyces spp. b) Mannon oligosaccharides c) Streptococci d) E-coli 66. The energy requirement of the grower chicken ration is
a) Pre-starter feed b) Starter feed c) Grower feed d) Finisher feed 64. Antibiotics are added in the ration as growth promoting agent at a) Sub-therapeutic level b) None of the above c) Therapeutic level d) Above therapeutic level 65. Live microbial culture added as feed additive in the pig feed is a) Sacchromyces spp. b) Mannon oligosaccharides c) Streptococci d) E-coli 66. The energy requirement of the grower chicken ration is
b) Starter feed c) Grower feed d) Finisher feed 64. Antibiotics are added in the ration as growth promoting agent at a) Sub-therapeutic level b) None of the above c) Therapeutic level d) Above therapeutic level 65. Live microbial culture added as feed additive in the pig feed is a) Sacchromyces spp. b) Mannon oligosaccharides c) Streptococci d) E-coli 66. The energy requirement of the grower chicken ration is
c) Grower feed d) Finisher feed 64. Antibiotics are added in the ration as growth promoting agent at a) Sub-therapeutic level b) None of the above c) Therapeutic level d) Above therapeutic level 65. Live microbial culture added as feed additive in the pig feed is a) Sacchromyces spp. b) Mannon oligosaccharides c) Streptococci d) E-coli 66. The energy requirement of the grower chicken ration is
d) Finisher feed 64. Antibiotics are added in the ration as growth promoting agent at a) Sub-therapeutic level b) None of the above c) Therapeutic level d) Above therapeutic level 65. Live microbial culture added as feed additive in the pig feed is a) Sacchromyces spp. b) Mannon oligosaccharides c) Streptococci d) E-coli 66. The energy requirement of the grower chicken ration is
64. Antibiotics are added in the ration as growth promoting agent at a) Sub-therapeutic level b) None of the above c) Therapeutic level d) Above therapeutic level 65. Live microbial culture added as feed additive in the pig feed is a) Sacchromyces spp. b) Mannon oligosaccharides c) Streptococci d) E-coli 66. The energy requirement of the grower chicken ration is
a) Sub-therapeutic level b) None of the above c) Therapeutic level d) Above therapeutic level 65. Live microbial culture added as feed additive in the pig feed is a) Sacchromyces spp. b) Mannon oligosaccharides c) Streptococci d) E-coli 66. The energy requirement of the grower chicken ration is
c) Therapeutic level d) Above therapeutic level 65. Live microbial culture added as feed additive in the pig feed is a) Sacchromyces spp. b) Mannon oligosaccharides c) Streptococci d) E-coli 66. The energy requirement of the grower chicken ration is
d) Above therapeutic level 65. Live microbial culture added as feed additive in the pig feed is a) Sacchromyces spp. b) Mannon oligosaccharides c) Streptococci d) E-coli 66. The energy requirement of the grower chicken ration is Kcal /kg a) 2500 b) 2800 c) 3000
65. Live microbial culture added as feed additive in the pig feed is a) Sacchromyces spp. b) Mannon oligosaccharides c) Streptococci d) E-coli 66. The energy requirement of the grower chicken ration is Kcal /kg a) 2500 b) 2800 c) 3000
a) Sacchromyces spp. b) Mannon oligosaccharides c) Streptococci d) E-coli 66. The energy requirement of the grower chicken ration is Kcal /kg a) 2500 b) 2800 c) 3000
b) Mannon oligosaccharides c) Streptococci d) E-coli 66. The energy requirement of the grower chicken ration is Kcal /kg a) 2500 b) 2800 c) 3000
c) Streptococci d) E-coli 66. The energy requirement of the grower chicken ration is Kcal /kg a) 2500 b) 2800 c) 3000
d) E-coli 66. The energy requirement of the grower chicken ration is Kcal /kg a) 2500 b) 2800 c) 3000
66. The energy requirement of the grower chicken ration is Kcal /kg a) 2500 b) 2800 c) 3000
a) 2500 b) 2800 c) 3000
b) 2800 c) 3000
c) 3000
1) 0.700
d) 3500
67. Birds experiencing diseases require an increase intake of some nutrients such as
a) Prebiotics
b) Enzymes
c) Vitamins
d) Antibiotics
68. The following one may be added in the layer chicken diet to meet out the calcium
requirements a) Gypsum
b) NaHCO ₃
c) Shell grit
d) Silica
69. The "curled toe paralysis" is deficiency of in poultry.
a) Folic acid
b) Manganese
c) Thiamine

d) Riboflavin

- 70. Low milk fat syndrome is caused by rations those are rich in ------. a) Protein b) Fat c) Carbohydrate d) Minerals 71. Protein value is highest in a) Maize b) Beef Tallow c) Fish meal d) Rice bran 72. ----should be supplied freely to the working horse feed because considerable quantities are excreted in the sweat. a) Mineral mixture b) Salt c) Oil d) Probiotics 73. Restricted feeding is recommended commonly in --------- stage of poultry a) chick b) grower c) starter d) laying 74. The following is an example of prebiotics a) Fructo-oligosaccharides b) Sachromyces c) Lactobacillus d) Amprolium 75. The best cereal source for the horses is a) Wheat b) Oats c) Horse gram d) Rice 76. Parrot beak occurs in chick embryos due to the deficiency of a) Biotin b) Riboflavin c) Manganese d) Magnesium
 - b) Change moisture content

77. Processing of feeds is primarily done for a) Alter particle size

- c) Change the feed density
- d) All of the above
- 78. Animal protein factor found in
 - a) Fish Meal
 - b) Meat Meal
 - c) Liver Residue Meal
 - d) Blood Meal

79. An additional quantity of nutrient given over the requirement is
a) Nutrient allowance
b) Nutrient requirement
c) Additives
d) Enzymes
80. The amount of water required for animals becomes much higher as the temperature
rises above
a) 25 °C
b) 12 ° C
c) 5 ° C
d) 0 ° C
81. An early sign of deficiency in sheep is a loss of crimp of wool.
a) Cobalt
b) Copper
c) Zinc
d) Molybdenum
82. The "Pica" is caused by the deficiency of in cattle.
a) Calcium b) Phosphogus
b) Phosphorus
c) Magnesium
d) Sulphur 23. The concentrate and forego ratio of the hard working harse food is
83. The concentrate and forage ratio of the hard working horse feed is a) 30:70
b) 50:50
c) 70:30
d) 0:100
84. The common coccidiostat used in the broiler feed is
a) Oxytetracycline
b) Gentamycin
c) Lasalocid
d) Xanthophill
85. Addition of following one to the feed will reduce dustiness of feed and laminitis
incidence in horses.
a) Grain
b) Wheat bran
c) Vegetable oil
d) Antibiotics
86. Perosis or slipped tendon in chicks is caused by the deficiency of
a) Manganese
b) Folic acid
c) Choline
d) All the above
87. The energy requirement of the broiler finisher ration (BIS) is Kcal /kg.
a) 2800
b) 3800
c) 3000

d) 3200 88. The following one is not a feed additive a) Oilcake b) Antibiotics c) Prebiotics d) Binders 89. Metabolic water produced per gram of protein is ----a) 0.4 g b) 0.8 g c) 0.1 g d) 0.12 g 90. Ideal protein is a most recent method for evaluating dietary protein for ---a) Chicks b) Calves c) Growing Pigs d) Foals 91. The Vitamin which helps in coagulation of blood is ---a) Vitamin E b) Vitamin A c) Vitamin K d) Vitamin C 92. Intake of forages gives high proportion of ----- in the rumen. a) Acetate b) Propionate c) Butyrate d) All of the above 93. High protein green grasses and legumes are difficult to ensile satisfactory because----a) Low soluble carbohydrate content b) High Buffering capacity c) Both the above d) None of the above 94. Nutritive ratio is wider when the ration contain------

- b) High Green grass
- c) High Oilcake

a) High Legume

- d) High Straw
- 95. Gluten is generally not fed to non-ruminants due to
 - a) Bulkiness
 - b) Poor protein quality

c)	Unpalatability
d)	All of the above.
96. Hay can b	e stored if moisture content is below%
a)	5 - 10
b)	15 - 20
c)	25 - 30
d)	40 - 45
97	is an excellent source of energy and B-complex vitamins among
the following	milling by-products.
a)	Bran
b)	Hull
c)	Husk
d)	Polish
98. Instrumen	t used for measuring energy metabolism in animal is known as
	Respiration Calorimeter
	Bomb Calorimeter
ŕ	Psychometric Chamber
· · · · · · · · · · · · · · · · · · ·	None of the above
99. Which of	the following is toxic factor present in Cotton Seed Cake
	a) Phytate
	b) Gossypol
	c) Mimosine
	d) Linamarin
100. Deficien	cy of causes Curled Toe Paralysis in chicks.
	a) Vitamin B ₁
	b) Vitamin B ₂
	c) Vitamin B ₅
101 5 11	d) Vitamin B ₆
101.Excellent	grazing grass for livestock in hot, dry areas of tropical countries is
<i>a)</i>	Cyanodon dactylon
<i>b</i>)	Cenchrus ciliaris
<i>c)</i>	Vigna catjang
· · · · · · · · · · · · · · · · · · ·	Pennisetum glaucum
102. Intake of	forages gives high proportion of in the rumen.
	a) Acetic acid
	b) Propionic acid
	c) Butyric acid
	d) Succinic acid

103 An exam	nple of wet processing method of grains is	
	Popping Popping	•
	Extruding	
	_	
c)	1 0	
	Roasting	11
104. Fatty Liv	ver and Kidney Syndrome in poultry cause	a by
	a) Riboflavin	
	b) Thiamin	
	c) Choline	
	d) Biotin	
105. Faecal en	nergy loss in horse is	
a)	10%	
b)	20%	
c)	30%	
d)	40%	
	plays an important role in the	production of 'crimp' in wool.
	a) Iron	
	b) Copper	
	c) Manganese	
	d) Zinc	
	Answers	
1. c	51. a	
2. c	52. c	
3. c	53. c	
4. b	54. c	
5. c	55. b	
6. c	56. c	
7. c 8. a	57. a 58. c	
8. a 9. c	59. c	
10. c	60. c	
11. c	61. a	
12. c	62. a	
13. d	63. a	
14. a	64. a	
15. c	65. a	
16. d	66. a	
17. a	67. d	
18. a	68. c	
19. c	69. d	
20. c	70. b	

71. c

21. a

22. a
23. a
24. a
25. a
26. a
27. a
28. a
29. a
30. a
31. b
32. b
33. a
34. d
35. a
36. d
37. a
38. c
39. a
40. c
41. b
42. b
43. b
44. b
45. a
46. c
47. a
48. a
49. b

50. a

72. b	
73. b	
74. b	
75. b	
76. c	
77. d	
78. a	
79. a	
80. a	
81. b	
82. b	
83. c	
84. c	
85. c	
86. a	
87. d	
88. a	
89. a	
90. c	
91. c	
92. a	
93. c	
94. d	
95. d	
96. b	
97. d	
98. a	
99. b	
100.b	
101.b	
102.a	
103.c	
104.d	

105.d 106.b

VETERINARY CLINICAL MEDICINE

1.	Lac	ctation tetany in mares is due to		
	a.	Low serum Ca ⁺ level	b.	Low serum Mg ⁺ level
	c.	Low serum Ca ⁺ & Mg ⁺ level	d.	Low serum Ca ⁺ , Mg ⁺ & P level
2.	Fee	ed additives which are in used to prev	ent	subclinical ketosis in lactating dairy
	catt	tle is		
	a.	Monensin	b.	Niacin
	c.	Methionine	d.	All the above
3.	Tra	nsition period of dairy cows is		
	a.	1 weeks before & 1 weeks after	b.	2 weeks before & 2 weeks after calving
		calving		
	c.	3 weeks before & 3 weeks after	d.	4 weeks before & 4 weeks after calving
		calving		
4.	Go	od indicator for negative energy bala	nce	
	a.	NEFA	b.	
	c.			Both a & b
5.	The	e gold-standard test for hyperketoner		
	a.	NEFA	b.	ВНВА
	c.		d.	Both a & b
5.		=	itive	test to detect metabolic derangement in
	pre	partum cow		
	a.	NEFA	b.	BHBA
	c.	Glucose	d.	Triglycerides
7.		Ŧ	itive	test to detect metabolic derangement in
	-	at partum cow		
	a.	NEFA	b.	BHBA
2	c.	Glucose	d.	Triglycerides
8.	-	peated administration of Isoflupredor		
	a.	Hyperkalemia	b.	V 1
2	C.	Hypernatremia	d.	Hyponatremia
9.		lk fever is due to	1.	In a simulation of Confirmation of Confirmation
	a.	Excessive loss of calcium in	b.	Impairment of absorption of Ca+ from
		colostrum	a .	the intestine
	C.	Impairment of resorption of	a.	All the above
10	Cal	Na+ from bones		inle damanda an
10.		cium homeostasis in the dairy cow is PTH		Vitamin D
	a.	a&b	d.	None
11.				ne releases of PTH from the parathyroid
11.		nds to correct hypocalcaemia in a car		le releases of 1 111 from the parathyroid
	a.	Magnesium		Phosphorous
	c.	Potassium		Vitamin D
12.		rmal ionized calcium level in cattle i		Tumini D
14.	a.	2.0–3.5 mg/dl		4.0–5.2 mg/dl
		5.5–6.5 mg/dl		6.0–7.2 mg/dl

13.	The predominant sign of stage III mil	k feve	r in cattle is
	a. Lateral recumbency		Elevated body temperature
	c. Hyperesthesia	d.	Increased pulse
14.	During the late gestation period addit		*
	hypocalcaemia in a cow.		
	a. Potassium	b.	Magnesium
	c. Chloride		Sulfur
15.	Prolonged recumbency caused by mil	k ever	leads elevation of
	a. Creatine phospokinase		
	c. Alanine amino transferase		a & b
16.	Degenerative ischemic muscle necros	sis noti	ced in
	-		Fat cow syndrome
	c. Post parturient	d.	Toxemia
	haemoglobinuria		
17.	According to the DCAD, addition of		the diet during prepartum will
	reduce the incidence of milk fever in		
	a. Sodium & Potassium	b.	Chloride & Sulfur
	c. Calcium & Magnesium	d.	Phosphorous & Potassium
18.	According to the DCAD, addition of		the diet during prepartum will
	induce the incidence of milk fever in		
	a. Sodium & Potassium	b.	Chloride & Sulfur
	c. Calcium & Magnesium	d.	Chloride & Sulfur Phosphorous & Potassium
19.		ırs du	e to
	a. Anorexia		Upper GI obstruction
	c. Abomasal disorders	d.	All the above
20.	Profound muscle weakness and latera	l devia	ation of neck noticed even after calcium
	therapy in high yielding dairy cow -	What r	nay be the reason?
	a. Hypomagnesaemia	b.	Hypochloremia
	c. Hypokalemia	d.	Hypophosphatemia
21.	In the following metabolic diseases w	hich c	ondition affects group of animals
	a. Hypomagnesaemia	b.	Hypocalcemia
	c. Hypokalemia		Hypophosphatemia
22.	Required Na:K ratio in rumen to imp	prove 1	nagnesium absorption from the gut
	epithelium is		
	a. 1:5	b.	5:1
	c. 1:3	d.	3:1
23.	Risk factors to cause hypomagnesaen	nia in c	eattle is
	a. Ingestion of large amount of	b.	Ingestion of large amount of young
	wheat pasture		growing grasses
	c. Ingestion of large amount of	d.	All the above
	cereal crops		
24.	Secondary form of ketosis in cattle du	ie to	
	a. Abomasal displacement	b.	Traumatic reticulitis
	c. Metritis	d.	All the above
25.	Deficiency of in the o	diet lea	ds to high incidence of bovine ketosis
	a. Cobalt	b.	Phosphorous

	c. Potassium	d	a & b
26.	Ketosis most commonly occurs during	u.	440
20.	a. First week of lactation	b.	First month of lactation
	c. Second month of lactation		Late pregnancy
27.	Responsible for the nervous form of ket		1 0
21.	-	b.	
	a. Isopropyl alcohol	d.	Beta hydroxy butyric acid
20	c. Butyric acid		Propionic acid
28.	Dose of protamine zinc insulin for the t a. 100-200 IU		200-300 IU
		b.	
20	c. 300-400 IU	d.	400-500 IU
29.	Pregnancy toxemia in cattle is also calle		
	a. Fat cow syndrome	b.	
20	c. Hepatic lipidosis	d.	All the above
30.	Confirmative diagnosis of Fatty liver sy		
	a. Serum hepatic enzymes		Ketone bodies
	c. Liver biopsy	d.	a &b
31.	Predisposing factor for Fatty liver synd		
	a. LDA	b.	Retained fetal membrane
	c. Downer cow syndrome	d.	All the above
32.	Neonatal hypoglycemia is more commo		
	a. Calves	b.	Lambs
	c. Piglets	d.	Puppies
33.	Treatment for post parturient hemogloin		
	a. 20 g sodium acid phosphate	b.	40 g sodium acid phosphate
	c. 60 g sodium acid phosphate	d.	80 g sodium acid phosphate
34.	Low milk fat syndrome in cattle due to		
	a. Low fiber diet	b.	Low concentrate in diet
	c. Low glucose in diet	d.	Low calcium in diet
35.	Low milk fat syndrome in cattle treated	with	n
	a. Magnesium oxide	b.	Sodium chloride
	c. Sodium acid phosphate	d.	Calcium gluconate
36.	Falling diseases in cattle is caused by		
	a. Copper deficiency	b.	Zinc deficiency
	c. Cobalt deficiency	d.	Vitamin E deficiency
37.	Enzootic ataxia in sheep is caused by		
	a. Copper deficiency	b.	Zinc deficiency
	c. Cobalt deficiency	d.	Vitamin E deficiency
38.	Characteristic feature of anemia due to	Cop	per deficiency in cattle is
	a. Microcytic hypochromic	b.	Macrocytic hypochromic anemia
	anemia		
	c. Normocytic hypochromic	d.	Normocytic normochromic anemia
	anemia		-
39.	Characteristic feature of anemia due to	Cop	per deficiency in cattle is
	a. Microcytic hypochromic	b.	=
	anemia		• • • • • • • • • • • • • • • • • • • •
	c. Normocytic hypochromic	d.	Normocytic normochromic anemia

anemia

40.	Enzootic marasmus in cattle is caused	by	
	a. Copper deficiency	•	Zinc deficiency
	c. Cobalt deficiency	d.	Vitamin E deficiency
41.	Estimation of Methylmalonic acid is th	ie pre	ecise indicator for the diagnosis of
	a. Copper deficiency	-	Zinc deficiency
	c. Cobalt deficiency		Vitamin E deficiency
42.	Estimation of Formiminoglutamic acid		•
	diagnosis of		
	a. Copper deficiency	b.	Zinc deficiency
	c. Cobalt deficiency		Vitamin E deficiency
43.	Characteristic feature of anemia due to		
	a. Microcytic hypochromic	b.	
	anemia	_	
	c. Normocytic hypochromic anemia	d.	Normocytic normochromic anemia
44.	Characteristic feature of anemia due to	Iron	deficiency in pig is
	a. Microcytic hypochromic anemia		Macrocytic hypochromic anemia
	c. Normocytic hypochromic anemia	d.	Normocytic normochromic anemia
15	Zn deficiency also called as		
45.	a. Ovine white liver diseases	h	Parakeratosis
	c. Swayback diseases		Unthirftiness
46	Retarded testicular development and pe		
4 0.	a. Copper deficiency		Zinc deficiency
	c. Iodine deficiency		Manganese deficiency
47.	is plays a vital role in bone		
47.			maintaining rigidity of connective tissue
	a. Mn	b.	
	c. Zn		Ca
18	Nutritional (enzootic) muscular dystrop		
4 0.	a. Zn		Mn
	c. Vit E & Selenium		Vitamin A
49.	Mulberry heart diseases in pig is cause		
4 7.	a. Vit E & Selenium	u by	
	c. Zn	d.	Vitanini A Vit D
50			
50.	Preventive dose of Vitamin D2 (Calcif	e101) b.	
	a. @100 U/kg IM	d.	\mathcal{E}
<i>E</i> 1	c. @1000 U/kg IM		ε
51.	Characteristic feature of lack of bone d		
	a. Rickets	b.	
5 2	c. Osteodystrophia fibrosa	d.	a&b
52.	Hydrocephalus and Micropthalamus ar		
	a. Vitamin A		Vitamin B1
	c. Vitamin D	a.	Vitamin E

53.	Dose of Vitamin K1 for warfarin toxicit	y in	dog
	a. 1-2 mg	•	2-3 mg
	c. 3-5 mg	d.	5-10 mg
54.	High dose of Amprolium in goat cause		
	a. Vitamin B1 deficiency	b.	Vitamin B1 toxicity
	c. Vitamin B12 deficiency		Vitamin B12 toxicity
55.	Increased CSF pressure occurs in		j
	a. Vitamin B1 deficiency	b.	Vitamin A deficiency
	c. Vitamin E deficiency	d.	a&b
56.	Dose of Thiamine hydrochloride in Police	oenc	ephalomalacia affected goat is
	a. 2-5 mg/kg bwt	b.	5-10 mg/kg bwt
	c. 10-15 mg/kg bwt	d.	15-20 mg/kg bwt
57.	Niacin deficiency is more common in		
	a. Dog	b.	Horse
	c. Pig	d.	Cattle
58.	Lameness and Laminitis in cattle caused	by-	deficiency
	a. Choline	b.	Niacin
	c. Pyridoxine	d.	Biotin
59.	Goose stepping gait in pig is caused by -		deficiency
	a. Thiamine	b.	Pantothenic acid
	c. Pyridoxine	d.	Riboflavin
60.	Eclampsia in dog is treated by		
	a. 10% Calcium borogluconate	b.	23% Calcium gluconate
	c. 10% Calcium gluconate	d.	23% Calcium borogluconate
61.	Producing false evidence is punishable	und	er IPC section
	a. 162	b.	163
	c. 192	d.	193
62.	Issuing or singing false evidence is puni	ishal	ole under IPC section
	a. 197	b.	176
	c. 420	d.	423
63.	Adulteration of food or drink meant for s	sale	is punishable under IPC section
	a. 270	b.	271
	c. 272	d.	274
64.	Adulteration of drugs is punishable under	r IP	C section
	a. 270	b.	271
	c. 272	d.	274
65.	Sale of adulterated drugs is punishable u	ndeı	r IPC section
	a. 274	b.	275
	c. 271	d.	281
66.	Bestiality is punishable under IPC section	n	
	a. 420	b.	377
	c. 422	d.	281
67.	Mischief causing damage to animals is j	puni	
	a. 420	b.	427
	c. 428	d.	429

- 68. Mischief by killing or maiming animal is punishable under IPC section
 - a. 420

b. 427

c. 428 & 429

d. 430

Answer

1		T C † 1 1
1.	a.	Low serum Ca ⁺ level
2.	d.	All the above
3.	c.	3 weeks before & 3 weeks after calving
4.	a.	NEFA
5.	b.	ВНВА
6.	a.	NEFA
7.	b.	ВНВА
8.	b.	Hypokalemia
9.	d.	All the above
10.	c.	a&b
11.	a.	Magnesium
12.	b.	4.0–5.2 mg/dl
13.	a.	Lateral recumbency
14.	a.	Potassium
15.	d.	a & b
16.	a.	Downer cow syndrome
17.	b.	Chloride & Sulfur
18.	a.	Sodium & Potassium
19.	d.	All the above
20.	c.	Hypokalemia
21.	a.	Hypomagnesaemia
22.	b.	5:1
23.	d.	All the above
24.	d.	All the above
25.	d.	a & b
26.	b.	First month of lactation
27.	a.	Isopropyl alcohol
28.	b.	200-300 IU
29.	d.	All the above
30.	c.	Liver biopsy
31.	d.	All the above
32.	c.	Piglets
33.	c.	60 g sodium acid phosphate
34.	a.	Low fiber diet
35.	a.	Magnesium oxide
36.	a.	Copper deficiency
37.	a.	Copper deficiency
38.	b.	Macrocytic hypochromic anemia

39. a. Microcytic hypochromic anemia 40. c. Cobalt deficiency 41. c. Cobalt deficiency 42. c. Cobalt deficiency 43. d. Normocytic normochromic anemia 44. a. Microcytic hypochromic anemia 45. b. Parakeratosis 46. b. Zinc deficiency 47. a. Mn 48. c. Vit E & Selenium 49. a. Vit E & Selenium 50. d. @1100 U/kg IM 51. d. a & b 52. a. Vitamin A 53. d. 5-10 mg 54. a. Vitamin B1 deficiency 55. d. a&b 56. b. 5-10 mg/kg bwt 57. c. Pig 58. d. Biotiin 59. b. Pantothenic acid 60. c. 10% Calcium gluconate		1	
41. c. Cobalt deficiency 42. c. Cobalt deficiency 43. d. Normocytic normochromic anemia 44. a. Microcytic hypochromic anemia 45. b. Parakeratosis 46. b. Zinc deficiency 47. a. Mn 48. c. Vit E & Selenium 49. a. Vit E & Selenium 50. d. @1100 U/kg IM 51. d. a & b 52. a. Vitamin A 53. d. 5-10 mg 54. a. Vitamin B1 deficiency 55. d. a&b 56. b. 5-10 mg/kg bwt 57. c. Pig 58. d. Biotin 59. b. Pantothenic acid 60. c. 10% Calcium gluconate 61. d. 197 63. c. 272 64. d. 274 65. b. 275 66	39.	a.	Microcytic hypochromic anemia
42. c. Cobalt deficiency 43. d. Normocytic normochromic anemia 44. a. Microcytic hypochromic anemia 45. b. Parakeratosis 46. b. Zinc deficiency 47. a. Mn 48. c. Vit E & Selenium 49. a. Vit E & Selenium 50. d. @1100 U/kg IM 51. d. a & b 52. a. Vitamin A 53. d. 5-10 mg 54. a. Vitamin B1 deficiency 55. d. a&b 57. c. Pig 58. d. Biotin 59. b. Pantothenic acid 60. c. 10% Calcium gluconate 61. d. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377	40.	c.	Cobalt deficiency
43. d. Normocytic normochromic anemia 44. a. Microcytic hypochromic anemia 45. b. Parakeratosis 46. b. Zinc deficiency 47. a. Mn 48. c. Vit E & Selenium 49. a. Vit E & Selenium 50. d. @1100 U/kg IM 51. d. a & b 52. a. Vitamin A 53. d. 5-10 mg 54. a. Vitamin B1 deficiency 55. d. a&b 56. b. 5-10 mg/kg bwt 57. c. Pig 58. d. Biotin 59. b. Pantothenic acid 60. c. 10% Calcium gluconate 61. d. 193 62. a. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b.	41.	c.	
44. a. Microcytic hypochromic anemia 45. b. Parakeratosis 46. b. Zinc deficiency 47. a. Mn 48. c. Vit E & Selenium 49. a. Vit E & Selenium 50. d. @1100 U/kg IM 51. d. a & b 52. a. Vitamin A 53. d. 5-10 mg 54. a. Vitamin B1 deficiency 55. d. a&b 56. b. 5-10 mg/kg bwt 57. c. Pig 58. d. Biotin 59. b. Pantothenic acid 60. c. 10% Calcium gluconate 61. d. 193 62. a. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b. 427	42.	c.	Cobalt deficiency
45. b. Parakeratosis 46. b. Zinc deficiency 47. a. Mn 48. c. Vit E & Selenium 49. a. Vit E & Selenium 50. d. @1100 U/kg IM 51. d. a & b 52. a. Vitamin A 53. d. 5-10 mg 54. a. Vitamin B1 deficiency 55. d. a&b 56. b. 5-10 mg/kg bwt 57. c. Pig 58. d. Biotin 59. b. Pantothenic acid 60. c. 10% Calcium gluconate 61. d. 193 62. a. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b. 427	43.	d.	
46. b. Zinc deficiency 47. a. Mn 48. c. Vit E & Selenium 49. a. Vit E & Selenium 50. d. @1100 U/kg IM 51. d. a & b 52. a. Vitamin A 53. d. 5-10 mg 54. a. Vitamin B1 deficiency 55. d. a&b 56. b. 5-10 mg/kg bwt 57. c. Pig 58. d. Biotin 59. b. Pantothenic acid 60. c. 10% Calcium gluconate 61. d. 193 62. a. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b. 427	44.	a.	Microcytic hypochromic anemia
47. a. Mn 48. c. Vit E & Selenium 49. a. Vit E & Selenium 50. d. @1100 U/kg IM 51. d. a & b 52. a. Vitamin A 53. d. 5-10 mg 54. a. Vitamin B1 deficiency 55. d. a&b 56. b. 5-10 mg/kg bwt 57. c. Pig 58. d. Biotin 59. b. Pantothenic acid 60. c. 10% Calcium gluconate 61. d. 193 62. a. 197 63. c. 272 64. d. 274 65. b. 377 66. b. 377 67. b. 427	45.	b.	Parakeratosis
48. c. Vit E & Selenium 49. a. Vit E & Selenium 50. d. @1100 U/kg IM 51. d. a & b 52. a. Vitamin A 53. d. 5-10 mg 54. a. Vitamin B1 deficiency 55. d. a&b 56. b. 5-10 mg/kg bwt 57. c. Pig 58. d. Biotin 59. b. Pantothenic acid 60. c. 10% Calcium gluconate 61. d. 193 62. a. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b. 427	46.	b.	Zinc deficiency
49. a. Vit E & Selenium 50. d. @1100 U/kg IM 51. d. a & b 52. a. Vitamin A 53. d. 5-10 mg 54. a. Vitamin B1 deficiency 55. d. a&b 56. b. 5-10 mg/kg bwt 57. c. Pig 58. d. Biotin 59. b. Pantothenic acid 60. c. 10% Calcium gluconate 61. d. 193 62. a. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b. 427	47.	a.	Mn
50. d. @1100 U/kg IM 51. d. a & b 52. a. Vitamin A 53. d. 5-10 mg 54. a. Vitamin B1 deficiency 55. d. a&b 56. b. 5-10 mg/kg bwt 57. c. Pig 58. d. Biotin 59. b. Pantothenic acid 60. c. 10% Calcium gluconate 61. d. 193 62. a. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b. 427	48.	c.	Vit E & Selenium
51. d. a & b 52. a. Vitamin A 53. d. 5-10 mg 54. a. Vitamin B1 deficiency 55. d. a&b 56. b. 5-10 mg/kg bwt 57. c. Pig 58. d. Biotin 59. b. Pantothenic acid 60. c. 10% Calcium gluconate 61. d. 193 62. a. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b. 427	49.	a.	Vit E & Selenium
52. a. Vitamin A 53. d. 5-10 mg 54. a. Vitamin B1 deficiency 55. d. a&b 56. b. 5-10 mg/kg bwt 57. c. Pig 58. d. Biotin 59. b. Pantothenic acid 60. c. 10% Calcium gluconate 61. d. 193 62. a. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b. 427	50.	d.	@1100 U/kg IM
53. d. 5-10 mg 54. a. Vitamin B1 deficiency 55. d. a&b 56. b. 5-10 mg/kg bwt 57. c. Pig 58. d. Biotin 59. b. Pantothenic acid 60. c. 10% Calcium gluconate 61. d. 193 62. a. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b. 427	51.	d.	
54. a. Vitamin B1 deficiency 55. d. a&b 56. b. 5-10 mg/kg bwt 57. c. Pig 58. d. Biotin 59. b. Pantothenic acid 60. c. 10% Calcium gluconate 61. d. 193 62. a. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b. 427	52.	a.	Vitamin A
55. d. a&b 56. b. 5-10 mg/kg bwt 57. c. Pig 58. d. Biotin 59. b. Pantothenic acid 60. c. 10% Calcium gluconate 61. d. 193 62. a. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b. 427	53.	d.	5-10 mg
56. b. 5-10 mg/kg bwt 57. c. Pig 58. d. Biotin 59. b. Pantothenic acid 60. c. 10% Calcium gluconate 61. d. 193 62. a. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b. 427	54.	a.	Vitamin B1 deficiency
57. c. Pig 58. d. Biotin 59. b. Pantothenic acid 60. c. 10% Calcium gluconate 61. d. 193 62. a. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b. 427	55.	d.	a&b
58. d. Biotin 59. b. Pantothenic acid 60. c. 10% Calcium gluconate 61. d. 193 62. a. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b. 427	56.	b.	5-10 mg/kg bwt
59. b. Pantothenic acid 60. c. 10% Calcium gluconate 61. d. 193 62. a. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b. 427	57.	c.	Pig
60. c. 10% Calcium gluconate 61. d. 193 62. a. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b. 427	58.	d.	Biotin
61. d. 193 62. a. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b. 427	59.	b.	Pantothenic acid
62. a. 197 63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b. 427	60.	c.	10% Calcium gluconate
63. c. 272 64. d. 274 65. b. 275 66. b. 377 67. b. 427	61.	d.	193
64. d. 274 65. b. 275 66. b. 377 67. b. 427	62.	a.	197
65. b. 275 66. b. 377 67. b. 427	63.	c.	272
66. b. 377 67. b. 427	64.	d.	274
67. b. 427	65.	b.	275
	66.	b.	377
68. c. 428 & 429	67.	b.	427
	68.	c.	428 & 429

LIVESTOCK PRODUCTION MANAGEMENT

1	The removal of wool from arc	und a	a sneep's eyes to prevent wooi-biinan	ess is	
a)	Ringing	c)	Crutching		
b)	Wigging	d)	Dagging	()
2.	The day-old chicks that have i	not be	een sorted by sex is called as		
a)	Sexed chicks	c)	Straight-run chicks		
b)	Preening	d)	Zoning	()
	-				
3.	The components of the whole	farm	system interact closely in		
a)	Organic farming	c)	Integrated farming		
b)	Mixed farming	d)	Extensive farming)
,		,			
4.	During 2016 – 17, the milk co	ntrib	ution by crossbred and exotic dairy co	ows in India is	
a)	26.5 %	c)	35.4 %		
b)	25.4 %	d)	20.8 %)
U)	23.4 /0	u)	20.0 70		,
5.	Quarantine shed in a dairy far	m cha	ould be located		
a)	At the entrance of the farm	111 5110	c) Near to dry animal shed	-	
	At the end of the farm		d) Near to isolation shed	(`
b)	At the end of the farm		d) Near to isolation slied	()
6.	As par 2012 livestock consus	tho t	otal bovine population in India is		
	304.8 million	c)	283.4 million		
a)				(`
b)	190.9 million	d)	300.0 million	()
7	At the time of breeding the be	ifon a	hould attain af the adult	hadri maiaht	
7.	_		hould attain of the adult	body weight.	
a)	50 %	c)	85 %	(\
b)	75 %	d)	60 %	()
8.	Pacammandad mathad of har	ıd mi	lking in dairy cattle is		
	Full hand milking	(c)	Knuckling		
a)	<u> </u>	an'	•	(`
b)	Stripping	d)	Full hand milking followed by	()
			stripping		
9.	Gestation period of a cow is th	10 1 01	riod between		
a)	Conception to calving				
b)	Calving to weaning		Calving to lactation	(`
U)	Carving to wearing	u)	Carving to factation	()
10.	Majority of Indian cover attain	tha	beak yield after parturition in		
a)	1-2 weeks	c)	4-6 weeks		
b)	3-4 weeks	d)	8-10 weeks	(`
U)	5-4 weeks	u)	o-10 weeks	()
	Covered and open area require	nd for	a bull is		
11		-(1 1())	a Dull 18		
11.	1 1				
a)	12 & 120 sq. m/ bull	c)	15 & 150 sq. m/ bull	(`
a) b)	12 & 120 sq. m/ bull 07 & 14 sq. m/ bull	c) d)	15 & 150 sq. m/ bull 20 & 120 sq. m/ bull	()
a)	12 & 120 sq. m/ bull	c) d)	15 & 150 sq. m/ bull 20 & 120 sq. m/ bull	()

b)	Ongole	d)	Kangay	yam	()
13.	Highest milk producing state	e in Ind	dia is			
a)	Punjab	c)	Tamil l			
b)	Andhra Pradesh	d)	Uttar P	radesh	()
14.	A farming system in which a traditional migratory routes					on
a)	Transhumant	c)	Sedent	-		
b)	Nomadic	d)		ntensive	()
15	Steaming up ration in dairy	cattle i	s provide	ed		
a)	Immediately after Parturition	c)	_			
b)	At last stage of pregnancy	d)	Before	insemination	()
16.	In India, the state with higher	est per	capita av	vailability of milk is		
a)	Punjab	c)	Tamil l	Nadu		
b)	Haryana	d)	Uttar P	radesh)
17	In India, National Centre of	Organ				
a)	Pune	c)	Ghazia			
b)	Karnal	d)	Hydera	lbad	()
18	Higher body temperature is					
a)	emaciated animals	c)		uffering from milk fever		
b)	female in late pregnancy	d)	malnou	urished animals	()
19	Mischief by killing, poisoning under sections	ng, ma	iming or	rendering useless any ar	nimal is punishab	ole
a)	428 and 429 I.P.C		c)	125 and 126 I.P.C		
b)	328 and 329 I.P.C		d)	95 and 96 I.P.C	()
20.	Bestiality is punishable unde	er secti	on is			
a)	177 I.P.C		c)	77 I.P.C		
b)	377 I.P.C		d)	187 I.P.C.	()
21.	Gramapriya chicken was deve	loped	from			
	a) Thrissur		c)	Hyderabad		
	b) Bangalore		d)	Hosur	()
22.	In a 100-cow dairy cattle farm	, milcl	n: dry co	w ratio should be		
	a) 60: 40		c)	75: 25		
	b) 50: 50		d)	90: 10	()
23.	The vitamin absent in chicken	egg is	·			
	a) Vitamin A		c)	Vitamin C		
	b) Vitamin K		d)	Vitamin D	()

24.	Bro	oding temperature for chicks during	first	week of age is	0 C
	a)	37.5	c)	30	
	b)	35	d)	40 ()
25.	The	e position of egg in the setter during i	ncub	ation should be	
	a)	Broad end up	c)	Horizontal	
	b)	Narrow end up	d)	None of the above ()
26.	The	e moisture content of poultry litter sho	ould	not exceed	
	a)	15- 20 %	c)	35-40 %	
	b)	25-30 %	d)	40-45 %)
27.	In E	English class, the yellow skin is prese	nt in	chicken breed	
	a)	Sussex	c)	Australorp	
	b)	Cornish	d)	Orpington ()
28.	Cer	ntral Training Institute for poultry pro	duct	ion and management is situated at	
	a)	Hasserghata	c)	Izatnagar	
	b)	Hyderabad	d)	Mumbai ()
29.	The	e physiological zero for chicken eggs	is ab	out	
	a)	27°C	c)	20°C	
	b)	18°C	d)	24°C ()
30.	Ma	ximum permissible level of ammonia	ı in p	oultry houses is	
	a)	55 ppm	c)	35 ppm	
	b)	25 ppm	d)	45 ppm ()
31.	You	ung one of rabbit is called as			
	a)	Bunny	c)	Doe	
	b)	Nanny	d)	Buck ()
32.	The	home tract of kathiawari horse breed	d is _		
	a)	Himalayan ranges	c)	Gujarat	
	b)	Rajasthan	d)	Manipur ()

33.	As	per the 19 th Livestock censu	s the	total hor	se population in India is		
	a)	0.725 million		c)	0.612 million		
	b)	0.625 million		d)	0.319 million	()
34.	Tat	tooing in mouse can be done	at _				
	a)	Base of the ears		c)	Flank region		
	b)	Base of the tail		d)	shoulder region	()
35.	You	ung one of guinea fowl is ca	lled a	.s			
	a)	Poult		c)	Squab		
	b)	keet		d)	Cygnet)
36.	The	e person who is experienced	in ma	aintainin	g the horse hoof is know	n as	_
	a)	Farrier		c)	Horse handler		
	b)	Equine podiatry		d)	Hoof tester)
37.	Car	nel can tolerate extreme deh	ydrat	ion to lo	se up toits	body weight	
	a)	40%		c)	20%		
	b)	30%		d)	10%	()
20	Th	harran calcum of comball in	.d	to the wi			
38.		e brown colour of eggshell is Carotenoids	aue	c)		-	
	a) b)	Protoporphyrin		d)	Xanthophylls Melatonin	(,
	U)	Тююрогриуни		u)	Weiatoimi	(,
39.	The	e act of parturition in rabbit i	s call	ed as			
	a)	Kindling		c)	Farrowing		
	b)	Kidding		d)	None of the above	()
40.	HD	EP of layer birds at 30 week	s of a	age unde	r optimal condition is		
	a)	92 %		c)	88 %		
	b)	98 %		d)	82 %	()
41.		ne atmospheric air condense	s ove	r eggshel	ll and form water droplet	s over eggshell,	, which
a)		called as ondensing	c)	Sweati	ng		
b)		ripping	d)	Shrinka	•	()

42. a) b) c) d)	Complete parts of oviduct in Infundibulum- Isthumus- Ma Infundibulum- Magnum-Isth Infundibulum- Magnum-Isth Infundibulum- Uterus -Isthum	agnum umus- umus-	- Uterus -Vagina · Uterus -Vagina · Uterus	()
43.	Floor space required for egg	tvpe c	chicken under cage system during	9 -18 weeks	of age.
a)	0.50 sq.ft	c)	0.75 sq.ft	, , , , , , , , , , , , , , , , , , , ,	
b)	0.30 sq.ft	d)	0.60 sq.ft	()
44.		bird i	s inseminated once in	lays intervals.	,
a)	10	c)	5		
b)	7	d)	2)
45.	The thermoneutral zone for a	ıdult d	airy cattle is		
a)	41 – 68°F	c)	50 – 78°F		
b)	70 – 88°F	d)	50 – 68°F	()
46.	The swamp buffaloes distrib	uted m	nostly in upper Brahmaputra valle	ey of Assam is	s
a)	Luit	c)	Toda		
b)	Ghurrah	d)	Chhattisgarhi	()
47.	Pea comb is the typical chara	acter o			
a)	Leghorn	c)	Rhode Island Red		
b)	Cornish	d)	New Hampshire	()
48.	Restricted feeding is mostly	follow	ved in		
a)	Layer breeders	c)	Layers		
b)	Broilers	d)	Broiler breeders	()
49.	The creep feeding space in fa	arrowi	ng pen should be maintained at _	by	providing
	artificial lighting until the pig		•		
a)	22 to 24°C	c)	24 to 28°C		
b)	30 to 32°C	d)	32 to 34°C	()
50.	In layer birds, during grower production.	stage	hours of light are requi	ired for better	
a)	16	c)	14		
b)	18	d)	12	()
51.	The American Marine bread	of cha	oon is alassified as		
a)	carpet wool breed	c)	eep is classified as fur sheep breed		
b)	long wool breed	d)	fine wool breed	()
U)	long woor breed	u)	Time woor breed	(,
52.	The number of pairs of needl				
a)	2	c)	6		
b)	4	d)	8	()
53.	Duration of heat in sow is				
a)	2-3 days	c)	8-10 days		

b)	4-5 days	d)	18-21 days	()
54.	Whitten's effect is mor	e commonly	v observed in		
a)	Rabbit	c)	Mice		
b)	Hamster	d)	Guinea pig	()
,		,	1 0	· ·	,
55.	The offspring coming to	from a male	donkey and mare is termed as		
a)	Mule	c)	Broken horse		
b)	Cob	d)	Hinny	()
56	The manual of the owner	-t	ution long on involve and odding its		
56.	Performance record	_	rticular animal is recorded in its		
a) b)	Phenotype	c) d)	Pedigree Genetic map)
U)	rhenotype	u)	Genetic map)
57.	In young piglet's need	le teeth shou	ld be clipped within		
a)	3 days after birth	c)	After weaning		
b)	After 10 days of birth		After 30 days of birth)
- /	, , , , , , , , , , , , , , , , , , ,	/			,
58.	Boar odour is a commo	on problem s	seen in		
a)	Uncastrated young mal	le c)	Uncastrated adult male		
b)	Castrated young male	d)	Castrated adult male	()
59.	The color of light having	ng calming e	effect on the broilers, therefore u	sed during catchi	ng is
a)	Blue	c)	Red		
b)	White	d)	Yellow	()
0)	VV IIIC	u)	Tello W	(,
60.	Hamsters are more acti	ive during _			
a)	Day time	c)	Nighttime		
b)	Both day and night	d)	Only during evening	()
61.		_	n of chicken meat in India is abo	ut	
a)	3350 g	c)	2150 g	,	,
b)	1200 g	d)	3890 g	()
62.	Fertilization take place	in which no	art of reproductive tract of chicke	an .	
a)	Ovary	c)	Infundibulum	11.	
-		•		,	`
b)	Isthumus	d)	Uterus	()
63.	Breed of poultry devel	oned by Kar	nataka Veterinary and Animal So	ciences Universit	T /
a)	Grampriya	c)	Swarnadhara	ciciees omversit	· y
b)	Vanaraja	d)	Krishibro	()
0)	v anaraja	u)		(,
64.	The advantage of free-	range housii	ng system includes		
a)	Saving of feed	-	oour requirement for managemen	nt	
b)	Less expensive		e above	()
•	•	•		•	,
65.	Which of the following	g breeds of c	lass has feathered shank?		
a)	American	c)	Asiatic		

b)	English	d)	Mediterranean	()
66.	The home tract of Marwari sh	•			
a)	Himalayan Ranges	c)	Haryana	,	,
b)	Rajasthan	d)	Manipur	()
67.	Which one of the following la	iver s	strain chicken lay white eggs.		
a)	Bab Cock BV-300	c)	Bab Cock BV-380		
b)	BablonaHarko	d)	Sever 579	()
68.	In India, most commonly prac	eticin	a mating system in nig is		
a)	Hand mating		Pen mating		
b)	Flock mating	d)	Herd mating)
60	"Directoil" is a disease of not a		J L		
69. a)	"Ringtail" is a disease of rat c Virus	c)	Fungus		
b)	Bacteria	d)	Low relative humidity	()
U)	Dacteria	u)	Low relative numbers	(,
70.	Which one of the following is				
a)	White giant	c)	New Zealand White	,	
b)	Angora	d)	Netherland Dwarf	()
71.	The lamb shed of a dimension	of 7	.5m x 4m x 3m high can accommodate	e a maximun	n of
a)	100 animals	c)	75 animals		
b)	125 animals	d)	50 animals	()
72.	The hen housed egg production	on of	hybrid commercial layer is		
a)	180 eggs	c)	220 eggs		
b)	360 eggs	d)	320 eggs	()
73.	Hitkari is the breed of chicker	n dev	eloped at		
a)	Hyderabad	c)	IARI		
b)	CARI	d)	Kerala	()
74.	The native tract of Arichevaac	վու th	ne Tamil Nadu sheep breed is		
a)	Tirunelveli	c)	Madurai		
b)	Sivagangai	d)	Ramnad	()
,				`	,
75.			India during 2007 – 2012 is		
a)	- 7.54 %	c)	- 9.07 %		
b)	- 8.07 %	d)	- 3.82 %	()
76.	Broken mouthed ewe retained	l in b	reeding flock because of excellent bree	eding perfor	mance.
a)	Gimmer	c)	Seggy	OT -	
b)	Crone	ď)	Gummer	()
					•
77.	_		dult ewe/ buck in Indian condition is _		_
a)	20 sq.ft	c)	10 sq.ft		

b)	15 sq.ft	d)	25 sq.ft	()
78.	Normally, chicken consumes _ 0.5 ml	c)	amount of water for each gram	of feed cons	umed
a) b)	1ml	d)	2 ml	()
79.		ŕ	n typical reversed "U" shaped body con	formation fro	om
a)	Nellore	c)	Mandya		
b)	Magra	d)	Hassan	()
80.	Central Avian Research Institu	ıte is	located at		
a)	Izatnagar	c)	Hydrabad		
b)	Banglore	d)	Delhi)
81.	The appearance and view of the				
a)	Floor plan Master plan	c) d)	Elevation Cross section	()
b)	Waster plan	u)	Cross section	()
82.	The normal pulse rate for adul	t shee	ep is		
a)	70 – 90 beats/min	c)	90 – 110 beats/min		
b)	60 – 70 beats/min	d)	100 – 120 beats/min	()
83.	Gestation period of mare is ab	out _			
a)	150-155 days	c)	235-245 days		
b)	365-375 days	d)	335 - 345 days	()
84.	Costation period of sow is				
a)	Gestation period of sow is 3 months 3 weeks 3 days	c)	11 months 11 weeks 11 days		
b)	9 months 9 weeks 9 days	d)	•	()
-,	,				,
85.		pitch	of thatched roof should be	_	
a)	35-40°	c)			
b)	45-50°	d)	30-35°	()
86.	The distance between grower	and la	ayer sheds should be minimum of		
a)	100 m	c)	150 m		
b)	50 m	d)	75 m	()
07				a ta	
87.	referred to as	bstac	eles where the pigeons can fly as freely	as they wish	1S
a)	Fly pen	b.	Sputnik		
b)	Aviary	d.	Coops	()
88.	In poultry house with slatted figround level.	loor s	ystem of housing, slats are fitted	feet above	e the
a)	6 - 7 feet	c)	7 - 8 feet		
b)	4 - 5 feet	d)	8 - 9 feet	()
				•	

89.			applemented with nutrition of Guinea p	oig is	
a) b)	Vitamin A Vitamin B	c) d)	Vitamin C Vitamin D	()
90.	The EU ban on conventional	cages	took effect from 1st January of		
a)	2010	b.	2011		
b)	2012	d.	2013	()
91.			of class is known for egg production?		
a)	American	c)	Asiatic		
b)	English	d)	Mediterranean	()
92.			poultry is not caused by virus is		
a)	CRD	c)	Infectious Bronchitis		,
b)	Fowl Pox	d)	Ranikhet diseases)
93.	The biological value of egg p				
a)	94	c)	90		`
b)	85	d)	80)
94.	The quantity of KMnO ₄ and fumigation is about	form	alin is required to get 3X concentration	during	
a)	60 g and 120mL	c)	120 g and 60mL		
b)	160 g and 80mL	d)	80 g and 160mL	()
95.	Reverse cages can hold of				
a)	1 - 2 birds	c)	5 - 6 birds		
b)	3 - 4 birds	d)	9 - 10 birds	()
96.	Feeding and watering space	requir	ements for adult cattle and buffalo is _		
a)	60 - 75 cm	c)	40 - 50 cm		
b)	75 – 80 cm	d)	50 - 60 cm	()
97.	As per BIS standards, minim		overed area requirement for adult male	goat should	be
a)	3.4	c)	4.5		
b)	1.8	d)	2.4	()
98.	Melatonin is released only at	limit	ed intervals and depends on		
a)	Wavelength of light	c)	Day- length		
b)	Intensity of light	d)	Color of light	()
		ŕ	-	•	,
99.	is the fibre obtain				
a)	Pashmina	c)	-		
b)	Cashmere	d)	Mohair	()
100.	Konkan Kapila cattle breed i				
a)	Maharashtra and Goa	c)	Kerala and Karnataka		
b)	Karnataka and Andhra Pradesh	d)	Maharashtra and Karnataka	()

ANSWER KEYS

1	b	51	d
2	С	52	d
3	С	53	a
4	a	54	c
5	a	55	a
6	d	56	c
7	d	57	a
8	d	58	c
9	a	59	a
10	b	60	c
11	a	61	d
12	с	62	c
13	d	63	c
14	a	64	d
15	b	65	С
16	a	66	b
17	c	67	a
18	b	68	c
19	a	69	d
20	b	70	d
21	c	71	С
22	С	72	d
23	c	73	b
24	b	74	a
25	a	75	c
26	b	76	b
27	b	77	b
28	a	78	d
29	d	79	c
30	b	80	a
31	a	81	С
32	С	82	a
33	b	83	d
34	b	84	a
35	b	85	b
36	a	86	a
37	a	87	d
38	b	88	a
39	a	89	С
40	a	90	b
	•		

41	b	91	d
42	b	92	a
43	b	93	a
44	С	94	a
45	a	95	b
46	b	96	a
47	b	97	b
48	d	98	c
49	С	99	d
50	d	100	a

LIVESTOCK PRODUCTS TECHNOLOGY- DAIRY SCIENCE

1. Gerber's acid is used to estimate

A. Fat percentage of milk

C. Total solids of milk

B. Mineral content of milk

D. Water adulteration

2. The diacetyl content of butter as per FSSAI standard is

A. 4 ppm B. 5 ppm C. 6 ppm D. 3 ppm

3. Cow milk is yellow in colour because of the pigment

A. riboflavin
C. carotene
B. xanthophyll
D. chlorophyll

4. Pick out the whey cheese from the following

A.Camembert B. Roquefort

C. Ricotta D. Cottage cheese

5. The concentration of milk without applying heat is

A.UF
C. Bactofugation
D. Clarification

6. Sugar percentage of sweetened condensed milk is

A.11 % B. 40 %

C. 15 % D. 10 %

7. Specific media used for isolation of coliform

A. MacConkey agar B. Triple sugar iron agar

C. Muller Hinton agar D. Blood agar

8. Kostler No. in mastitis milk is less than

A.3.5 - 4.0 C. 4.0 - 4.5 D. 6.0

9. The P value of ghee is

A. 2.0-3.0 B. 3.0-4.0 C. 2.5-3.0 D. 1.0-2.0

10. The hormone responsible for ejection of milk

A. Vasopressin
C. Progesterone
B. Oestrogen
D. Oxytocin

11. The hardening temperature of ice cream is

A. $-20 \text{ to } -25^{\circ}\text{C}$

B. $-30 \text{ to } -35^{\circ}\text{C}$

C. $-23 \text{ to } -29^{\circ}\text{C}$

- D. $-25 \text{ to } -30^{\circ}\text{C}$
- 12. Baudouin test is used to detect adulteration in
 - A. Butter

B. Ghee

C. Khoa

- D. Channa
- 13. An example of unripened cheese is
 - A. Cheddar cheese
- B. Camembert

C. Mozarella

- D. Mysost cheese
- 14. The iron content of khoa is more than

A.175ppm

B.200ppm

C.100ppm

D.250ppm

- 15. The shelf life of paneer at room temperature is
 - A. 1 day

B. 4 days

C. 3 days

- D. 8 days
- 16. Iodine can be used for the detection of
 - A. Starch

B. Water

C. Cane sugar

- D. Skim milk powder
- 17. Cacl₂ can be used in the preparation of
 - A. Cheese

B. Butter

C. Khoa

- D. Paneer
- 18. The acidity of fresh cow milk is
 - A. 2.0 %

B. 0.14%-0.18%

C. 2.0-3.0 %

- D. 0.19%
- 19. Ocharotoxin is produced by
 - A. Aspergillus

B. Penicillium

C. Salmonella

- D. Mucor
- 20. Malta fever is caused by
 - A. Salmonella

B. Clostridium

C. Listeria

- D. Brucella
- 21. Psychrotrophic organisms will grow at
 - A. 30^{0} C

 $B.15-20^{0}C$

 $C. 2-7^{0}C$

- D. $9-10^{0}$ C
- 22. The fat per cent of flavoured milk is more than

	A.2 C. 1	B.3 D.4	
23.	According to PFA rule, recombine A. 3.5% fat C. 4.0% fat	B.	nilk should contain 3.0 % fat 4.5% fat
24.	Satisfactory temperature for crean A. 45^{0} C C. 40^{0} C	В. :	paration is around 50°C 55°C
25.	According to PFA standard, the co A. 3 C. 6	omn B. : D.	
26.	Fisher and Hooker's phase reversa A. Butter C. Cheese	B.	eory is related with the preparation of khoa Paneer
27.	Makkan refers to A. Channa C. Paneer		Desi butter Cream
28.	The fat percent of double toned m A. 2.5% C. 1.5%	B.	is 2.0% 3%
29.	In MBRT test, very good milk with A. 4½ hrs. C. 3 hrs.	B. :	ave MBRT time over 5 hrs. 4 hrs
30.	Mastitis milk can be detected by A. Somatic cell count C. By appearance		Total plate count Phosphatase
31.	Bactofugation is the process of real A. 92.9% C. 99.9%	B.	ring bacteria at a level of 85% 100%
32.	Greenish yellow colour of whey is A. Riboflavin C. Vitamin A	B.	e to Xanthophyll Melanin

33. According to PFA rule fat percent in ice cream is

A. 15%

B. 15%

C. 18%

D. 10%

34. The over run in butter is

A. 40%

B. 50%

C. 60%

D. 25%

35. The fat percentage of unsweetened condensed milk is

A. 0.5%

B. 5%

C. 2.5%

D. 8%

36. Roller drying is the process used in the preparation of

A. Paneer

B. Khoa

C. Cream

D. Milk powder

37. Basundi is an example of

A. Condensed milk

B. Evaporated milk

C. Coagulated milk

D. Frozen milk

38. Fat content of fore milk is

A. Medium

B. Low

C. High

D. Normal

39. Recknagel's phenomenon is associated with

A. Specific gravity of milk

B. Freezing point of milk

C. Boiling point of milk

D. Specific heat of milk

40. Emulsifiers in ice cream improves

A.Taste

B. Shelf life

C. Flavour

D. Whipping quality

41.In India, buffalo contribution to total milk production ranges between

A. 50 - 55%

B. 45 - 50%

C. 35 - 40%

D.60 - 65%

42. World milk day observed on

A. 01 June

B. 01 July

C. 01 August

D. 01 May

43 .Normal pH for fresh sweet cow milk is

A. 6.6

B. 4.5

C. 5.6

D. 7.0

44. Yellow colour of the milk is due to

45.Calf rennet is obtained from A. Abomasum of calves B. Small intestine of calves D. Spleen C. Large intestine of calves 46. Coliforms in Dahi should not be more than A. 10 / gB. 100 / g C. 40 / g D. 150 / g 47. Turbidity is used for finding out the efficiency of A. Chilling B. Pasteurisation C. Sterilization D. Starter activity 48.Recent technique used for enumerating microbial load is A. DEFT test B. MBRT C. RRT D. GHP 49. Pimaricin is an example of A. Enzyme B. Fungicide C. Preservative D. Antioxidant 50.Stoke's law is related with B. Clarification A. Butter churning C. Microfiltration D. Cream separation 51. The commonly occurring pathogen in ice cream is A. Salmonella B. Campylobacter C. Listeria D. Leptospira 52. Stabilizer used in ice cream is A. GMS B. Pectin C. Potassium Sorbate D. Sodium glutamate 53. One of the practices involved in HACCP is A. GMP B. GDP C. MPN D. DEFT 54. The milk used for production of sweetened condensed milk should not give the MBR time less than A. 3.5 hrs B. 5.5 hrs.

B. Vitamin A

D. Carotene

55. Yakult is a popular fermented product of

D. 4.0 hrs.

C. 4.5 hrs

A. Casein

C. Cyanocobalamine

A. Spain C. Bulgaria	B. Japan D. Denmark					
56. E. Coli and Enterobacter aerogenes can be differentiated by set of biochemical tests called						
A. SCC B. IMV						
C. Hotis test	D. None of the above					
•	57.Pick out the theory for butter churning					
A. fritz process	B. Alfa-laval					
C. Rahn's foam theory	D. CherryBurrell					
58.Prestratification method	adopted for preparation	ı of				
A. cheese	B. ghee					
C. butter	D. khoa					
59. The pH of coagulation o	f milk for channa prepa	ration should be around				
A. 7.5	B. 2.6					
C. 3.8	D. 5.4					
60. The chemical preservative used to increase the shelf life of khoa is A. potassium hydroxide C. potassium sorbate B. calcium chloride D. potassium dichromate						
61.NDDB is located at						
a. New Delhi		b.Anand				
c. Ahmedabad		d. Karnal				
62.Father of white revolution	on					
a. Lal Bahadur Shastri		b. Sardar Vallabhbhai Patel				
c. Vergese Kurien		d. Tribhuvandas Patel				
	17 ' '					
63. The biography of Dr. Vergese Kurien is						
a. Pursuit of happiness		b.Story of milk man				
c. I too had a dream		d. White truth				
64. The state which stands fi	irst in milk production					
a. Rajasthan		ar Pradesh				
c. Undivided Andhra Prade	sh	d. Maharashtra				

65. The state where crossbred dairy population is high

a. Punjab c. Tamilnadu	b. Uttar Pradesh d. Maharashtra					
66.Milk from Zebu is						
a. A2 type c. S type	b. A1 type d. b and c					
67. The institute which produced first clone	d buffalo in the world is					
a. TANUVAS c. NDRI	b. IVRI d. NDDB					
68. The breed which is generally used in Jan	llikattu is					
a. Alambadi c. Pulikulam	b. Burgur d. Umblachery					
69. TNLDA is stands for						
 a. Tamilnadu Livestock keepers Development Authority c. Tamilnadu Landless farmers Development Authority 	 b. Tamilnadu Land use Development Authority d. Tamilnadu Livestock Development Agency 					
70. The state where cattle slaughter is not leg	gally prohibited					
a. Arunachal Pradesh c. Kerala	b. Mizoram d. All the above e.					
71. The principal carbon source for majority of the spoilage causing microorganisms in						
milk is						
a. Fat c. Lactose	b. Proteind. Vitamins					
72. Which one of the following is specific antimicrobial substance of milk						
a. Lactoferrin c. Complement	b. Fatty acidsd. Lysozyme					
73. Summer mastitis is caused by						
a. Streptococcus agalactiac. Corynebacterium pyogenes	b. <i>Streptococcus dysagalactia</i> d. <i>Streptococcus uberis</i>					
74. Microbacterium lacticum is mostly deriv	ved from					

	a. Milking environmentc. Milking byres	b. Milking personneld. Milking equipment.
75. Rec	commended time-temperature combination for l	HTST pasteurization is
	a. 68.3°C for 20 min c. 62.8°C for 30 min	b. 93°C for 10 min d. 72°C for 15 sec
76. Wa	ter content of fresh cow milk on an average is a	bout
77. Pre	a. 87.23% c. 60.8% servation of Evaporate Milk is by	b. 91.5% d. 72.9%.
	a. Sterilizationc. Addition of Sodium Chloride	b. Addition of Sugard. Addition of Citric acid.
78. The	e per capita availability of milk in India as per 2 a. 220 gm c. 300 gm	005 -06 statistics is b. 240 gm d. 180 gm
79. Nat	a. Casein and phosphates c. bacteria	b. lactic acid d. Mould
80. Wh	ich of the following constituent is the most vari a. lactose c. protein	able component in a lactation b. minerals d. fat
81. The	e time temperature combination in pasteurization	on is based on the thermal death
time of	a. Mycobacterium paratuberculosisc. Mycobacterium tuberculosis	b. <i>Coxiella burnetti</i> d. <i>Brucella abortus</i>
82. Du milk	ring mastitis which one of the following con	astituents concentration increase in
	a. Casein c. Calcium	b. Chloride d. Phosphorus
83. The	e group of bacteria that predominate in stored m a. Thermophills	b. Mesophills
	c. Psychrotrophs	d. Thermodurics
84. Pho	osphatase test is the test for finding out the effic a. Sterilization	iency of b. Pasteurization
85. Mil	c. Homogenization k powder can be prepared by the process called	d. Vacreation

a. Freeze drying	b. Air drying				
c. Spray drying	d. Sun drying				
86. Common adulterant of milk is					
a. Water	b. Sugar				
c. Starch	d. All of them				
87. The milk most suitable for prepar	ation of Khoa is				
a. Cow milk	b. Buffalo milk				
c. Sheep milk	d. Goat milk				
88. Somatic cell count is associated w	vith				
a. Mastitis	b. Brucellosis				
c. Stomatitis	d. Scarlet fever				
89. Nisin is antibacterial substance pr	roduced by				
a. Streptococcus lactis	b. Streptococcus cremoris				
c. Staphylococcus aureus	d. Streptococcus agalactiae				
90. Stabilizer used in ice cream is					
a. Sugar	b. Gelatin				
c. GMS	d. Starch				
91. Post pasteurization contamination	is indicated by				
a. Serratia	b. Coliforms				
c. Lactobacillus	d. None				
92. Irradiation of milk increases					
a. Vitamin A content	b. Vitamin B content				
c. Vitamin K content	d. Vitamin D content				
93 Operation Flood Scheme - II was	implemented in the year				
93. Operation Flood Scheme - II was implemented in the year a. 1970 b. 1990					
c.1981 d. 1955					
94. Flavour compound in Yoghurt is					
a. Diacetyl b. Acetaldehyde					
c. Acetone	d. Methane				
95. The most heat resistant microorganism encountered in dairy industry					
a. Mycobacterium tuberculosis b. Streptococcus lactis					
c. Coxiella burnetti	d. Aspergillus niger				
96. Bactofugation is the process of removing bacteria at a level of					
A. 92.9%	B. 85%				
C. 99.9%	D.100%				

- 97. Greenish yellow colour of whey is due to
 - A. Riboflavin

B. Xanthophyll

C. Vitamin A

D. Melanin

- 98. According to PFA rule fat percent in Ice cream is
 - A. 15%

B. 15%

C. 18%

D. 10%

- 99. The over run in butter is
 - A. 40%

B. 50%

C. 60%

D. 25%

100. The fat percentage of unsweetened condensed milk is

A. 0.5%

B. 5%

C. 2.5%

D. 8%

Answer Key

1.	A	46.	A	91.	В
2.	A	47.	C	92.	D
3.	С	48.	A	93.	С
4.	С	49.	В	94.	В
5.	A	50.	D	95.	С
6.	В	51.	A	96.	С
7.	A	52.	В	97.	A
8.	В	53.	A	98.	D
9.	D	54.	Α	99.	D
10.	D	55.	В	100.	D
11.	C	56.	В		
12.	В	57.	C		
13.	C	58.	В		
14.	C	59.	D		
15.	A	60.	C		
16.	Α	61.	В		
17.	A	62.	С		
18.	В	63.	С		
19.	A	64.	В		
20.	D	65.	C		
21.	С	66.	A		
22.	A	67.	C		
23.	В	68.	C		
24.	С	69.	D		
25.	A	70.	D	·	

26.	A	71.	С	
27.	В	72.	С	
28.	С	73.	С	
29.	В	74.	A	
30.	A	75.	D	
31.	С	76.	A	
32.	A	77.	A	
33.	D	78.	В	
34.	D	79.	A	
35.	D	80.	D	
36.	D	81.	В	
37.	A	82.	В	
38.	В	83.	C	
39.	A	84.	В	
40.	D	85.	C	
41.	A	86.	D	
42.	A	87.	В	
43.	A	88.	A	
44.	D	89.	A	
45.	A	90.	В	

LIVESTOCK PRODUCTS TECHNOLOGY (MEAT SCIENCE)

1.		System of dressing of carcasses is followed in modern abattoirs.					
	a).	Line	b).	Cross			
	c).	Break	d).	Joint			
2.	Mus	slim method of slaughter is also called a					
	a).	Haram	b).	Halal			
	c).	Kosher	d).	Jhatkha			
3.	In Jewish slaughter, the butcher is called as						
	a).	Shochet	b).	Shomer			
	c).	Mulla	d).	Kosher			
4.	Removal of blood vessels of Carcasses in Jewish slaughter is called						
	a).	Searching	b).	Bunging			
	c).	Porging	d).	Portioning			
5.	One livestock unit is						
	a).	1 Cattle=2 piglets=3 calves=5 sheep	b).	1 Cattle=2 calves=3 pigs=5 sheep			
	c).	1 Cattle=2 pigs=3 sheep =5 calves	d).	1 Cattle=2 pigs=3 calves=5 sheep			
6.	Bleeding time for pig is minutes.						
	a).	5	b).	6			
	c).	7	d).	8			
7.	Casings prepared from small intestine of sheep are called						
	a).	weasand	b).	Middles			
	c).	Bungs	d).	Rounds			
8.	Ave	rage protein content of carcass meal					
	a).	50%	b).	30%			
	c).	70%	d).	40%			
9.	The	bleeding time for cattle is	mi	nutes.			
	a).	5	b).	6			
	c).	7	d).	8			

10.	The	bleeding time for sheep is	mi	nutes.
	a).	5	b).	6
	c).	7	d).	8
11	Asp	iration of blood into thoracic cavity by i	nsert	ing knife too far towards the chest
	or o	ver sticking causes		_
	a).	Poor bleeding	b).	Back bleeding
	c).	Rush bleeding	d).	Stick bleeding
12	Scal	ding temperature in pigs is about		
	a).	50 - 55 °C	b).	62 - 64 °C
	c).	70 - 85 °C	d).	90 °C
13	Aniı	mals should be bled withinse	cond	s after electrical stunning to avoid
	mus	cle splashing.		
	a).	60 sec	b).	30 sec
	c).	90 sec	d).	10 sec
14	The	gelatin is obtained from the bladder of		is called as Isinglass
	a).	Beef	b).	Carabeef
	c).	Pork	d).	Fish
15	Aniı	mals with less fat cover over the body an	nd rea	ady for slaughter are called as
	a).	Mild stock	b).	Good stock
	c).	Clean stock	d).	Lean stock
16	A m	ale bovine castrated late in life is called	as	
	a).	Bullock	b).	Steer
	c).	Stag	d).	Bull
17	Scal	ding temperature of pig		
	a).	40° C	b).	35 °C
	c).	63 °C	d).	80° C
18	You	ng poultry which are 23-28 days old wi	th an	average live weight of 0.5kg are
	calle	ed as		
	a).	Gilt	b).	Weaner

	c).	Stag	d).	Poussins
19	Eati	ng of dog flesh is called as		
	a).	Canophagia	b).	Hippophagia
	c).	Kynophagia	d).	Caninephagia
20	The	optimum concentration of CO2 gas in s	stunni	ng of pigs is
	a).	70%	b).	20%
	c).	50%	d).	90%
21	Eati	ng of horse flesh is called as		
	a).	Hippophagia	b).	Caprophagia
	c).	Kynophagia	d).	Biophagia
22	The	voltage during electrical stunning of sh	eep i	s usually
	a).	40 V	b).	75 – 80 V
	c).	90 V	d).	120 V
23	Dee	r meat is called as		
	a).	Fryer	b).	Deer mutton
	c).	Venison	d).	Menison
24	Buf	falo meat is also called as		
	a).	Buff	b).	Buffen
	c).	Carabeef	d).	All the above
25	Goa	t meat is called as		
	a).	Mutton	b).	Beef
	c).	Venison	d).	Chevon
26	Area	a size for a medium meat plant (50,000-	+ unit	es /year) is
	a).	1-2 acres	b).	2-3 acres
	c).	3-4 acres	d).	2-4 acres
27	The	creatures which may cause contaminat	ion in	abattoir are called as
	a).	Fermins	b).	Kermins
	c).	Dermins	d).	Vermins

28	The	recommended water requirement for a p	oig in	a abattoir is	litres / day.
	a).	454	b).	272	
	c).	45	d).	None of the above	
29	Reco	ommended light intensity at work rooms	in a	n abattoir is	lux.
	a).	540	b).	220	
	c).	110	d).	50	
30	Pen	size for housing of cattle (loose) in laira	ge of	a slaughter house is _	m².
	a).	2.3-2.8	b).	2.1-2.4	
	c).	3.1-3.3	d).	3.3-3.5	
31	Reco	ommended lairage floor gradient in a sla	ught	er house should be at le	east
	a).	1:20	b).	1:30	
	c).	1:40	d).	1:50	
32	The	slaughter rate in gravity rail system is		cattle / hour	
	a).	10-40	b).	10-75	
	c).	40-120	d).	50-150	
33	The	slaughter rate in intermittent powered sy	ysten	of dressing is	cattle / hour
	a).	10-40	b).	10-75	
	c).	40-120	d).	50-150	
34	The	slaughter rate in continuous powered sy	stem	of dressing is c	attle / hour
	a).	10-40	b).	10-75	
	c).	40-120	d).	50-150	
35	The	slaughter rate in canpack dressing syste	m is	cattle / hour	
	a).	10-40	b).	10-75	
	c).	40-120	d).	50-150	
36	Reco	overy of fat from the dead carcasses is c	alled	as	
	a).	Rendering	b).	Simmering	
	c).	Braising	d).	Pasteurization	
37	The	edible offals of food animals must be he	eld at	a temperaturenot exce	eding
		_°C.			
	a).	3	b).	4	

	c).	5	d).	6
38	Нер	arin is extracted from		
	a).	Lung	b).	Liver
	c).	Spleen	d).	Adrenal
39	The	process of tanning sheep skin with fish	oil is	popularly known as
	a).	Shammoying	b).	Dying
	c).	Bating	d).	Desliming
40	Aniı	mal casings are mainly graded based on	their	
	a).	Length	b).	Diameter
	c).	Colour	d).	Moisture content
41	Ome	ental fat is otherwise called as		
	a).	Caul fat	b).	Suet
	c).	Knob	d).	Leaf fat
42	Ren	dered pig fat is called as		
	a).	Lard	b).	Momo
	c).	Caul fat	d).	Tallow
43	Ren	dered cattle fat is called as		
	a).	Lard	b).	Momo
	c).	Caul fat	d).	Tallow
44	Mea	asly beef is caused by		
	a).	Cysticercustenucollis	b).	Cysticercusbovis
	c).	Cysticercuscellusae	d).	Multicepsmulticeps
45	Mea	sly pork is caused by		
	a).	Cysticercustenucollis	b).	Cysticercusbovis
	c).	Cysticercuscellusae	d).	Multicepsmulticeps
46	Pig	skin is also known as	_	
	a).	Pelt	b).	Hide
	c).	Rind	d).	Lard
47		is manufactured from the	e abo	masum of the calf.
	a).	Pensin	b).	Rennin

	c).	Proteus	d).	Rennet
48	Drie	d blood is rich in amino acid		_
	a).	Lysine	b).	Leucine
	c).	Methionine	d).	Tryptophan
49	Blac	k puddings are the edible by-prod	lucts obtain	ed from
	a).	Bone marrow	b).	Blood
	c).	Brain	d).	Kidneys
50	Pig s	skin yields large quantity of		
	a).	Collagen	b).	Elastin
	c).	Gelatin	d).	Reticulin
51	The	slunk/slink means		
	a).	12 months old calf	b).	2 months old calf
	c).	7 days old calf	d).	Unborn calf
52	The	air pressure of pneumatic stunner	is	
	a).	80 – 120 bar	b).	80 – 120 psi
	c).	3500 – 4000 psi	d).	3500 – 4000 bar
53	The	light intensity at detained meat ro	om is	
	a).	110 LUX	b).	220 LUX
	c).	540 LUX	d).	None of the above
54	The	normal exsanguination time for cl	hicken is _	
	a).	1.5 to 2 min	b).	3 to 4 min
	c).	5 to 6 min	d).	6 to 8 min
55	Wet	ting is a	reaction of	cleaning in a meat plant
	a).	Physical	b).	Chemical
	c).	Microbial	d).	Organic
56	Chel	ating agents are otherwise called	as	
	a).	Halogens	b).	Amphoterics
	c).	Sequestrants	d).	Halophiles
57	Ave	rage dressing % in Indian goats is	about	
	a).	45-50%	b).	55%

	c).	Above 70%	d).	60%
58	Ruff	le fat is a fat around		
	a).	Kidney	b).	Mesentery
	c).	Thoracic region	d).	Rectum
59	EU 1	regulation for water temperature require	d for	knife sterilization in abattoir is
		PC .		
	a).	72	b).	82
	c).	92	d).	102
60	The	best ramp angle for loading and unload	ing o	f pigs from trucks is°.
	a).	20	b).	30
	c).	40	d).	50
61		reserves of animals are readily	deple	eted during transit and detention
	a).	Protein	b).	Fat
	c).	Glycogen	d).	All the above
62		reagent is used for o	dating	g of bruised meat
	a).	Fouchet's	b).	TBA
	c).	Voges-proskauer	d).	Edwards
63	Age	of the bruises in animal is identified by		test
	a).	Malachite green test	b).	Bilirubin test
	c).	Remington fowrie test	d).	Halothane test
64	Dou	ble muscling in thigh region of Simmen	ıtal bı	ulls is also called as effect.
	a).	Symond's	b).	Doppelender
	c).	Roger's	d).	Gracey's
65	Mea	t fit for human consumption by Jewish	meth	od of slaughter is known as
	a).	Halal	b).	Terefa
	c).	Haram	d).	Kosher
66	Mea	t fit for human consumption by Muslim	meth	nod of slaughter is known as
	a).	Halal	b).	Terefa

	c).	Haram	d).	Kosher			
67	Mea	t unfit for human consumption by Jewi	sh me	ethod of slaughter is known as			
	a).	Halal	b).	Terefa			
	c).	Haram	d).	Kosher			
68	Mea	t unfit for human consumption by Mus	lim m	ethod of slaughter is known as			
	a).	Halal	b).	Terefa			
	c).	Haram	d).	Kosher			
69	Five	rules ofslaughter	requi	red for killing the animal for food			
	are '	without pause, pressure, slanting, stable	oing a	nd tearing".			
	a).	Jewish	b).	Muslim			
	c).	Jhatka	d).	None of the above			
70	Eme	ergency slaughter is done in animals have	ving_				
	a).	Acute pain	b).	Chronic condition			
	c).	Anthrax	d).	Black quarter			
71	Cası	ualty slaughter is done in animals havin	g				
	a).	Acute pain	b).	Chronic condition			
	c).	Anthrax	d).	Black quarter			
72	The	slaughter of dead animals is called		<u>_</u> .			
	a).	Cold slaughter	b).	Emergency slaughter			
	c).	Casualty slaughter	d).	Plain slaughter			
73		is called as father of me	at ins	pection.			
	a).	Thornton	b).	Gracey			
	c).	Ostertag	d).	Collins			
74		is known as sweeth	reads				
	a).	Heart	b).	Spleen			
	c).	Pancreas	d).	Kidney			
75	Trot	ters are					
	a)	Cattle feet	h)	Sheen feet			

	c).	Rabbit feet	d).	Pig feet
76	Scal	ding of turkey is usually done at		_ temperature
	a).	60°C for 60 sec	b).	53°C for 120 sec
	c).	60° C for 120 sec	d).	93°C for 5 sec
77	Mea	t bone ratio in dressed broiler is approx	imate	ely
	a).	4:1	b).	2:1
	c).	3:1	d).	5:1
78	Foli	c acid is the rich source in	_	
	a).	Beef	b).	Mutton
	c).	Pork	d).	Chicken meat
79	Thia	mine is the rich source in		
	a).	Beef	b).	Mutton
	c).	Pork	d).	Chicken meat
80	Niac	cin is the rich source in		
	a).	Beef	b).	Mutton
	c).	Pork	d).	Chicken meat
81	Glue	e is the crude form of		
	a).	Collagen	b).	Gelatin
	c).	Adhesive	d).	Gum
82	Den	nineralized bone is called as		
	a).	Bone ash	b).	Calcined bone
	c).	Bone meal	d).	Ossein
83	Alpl	na cells of pancreas yield the		hormone
	a).	Insulin	b).	Glucagon
	c).	Parathormone	d).	Epinephrine
84	Deo	nar abattoir situated at		
	a).	Mumbai	b).	Chennai
	c).	Calcutta	d).	New Delhi
85	Can	pak system of dressing is developed and	l pate	ented in
	a)	USA	h)	Canada

	c).	Russia	d).	France
86	,	ein can be obtained from	u).	Trunce
80				
	a).	Bones	b).	Cartilage
	c).	Brain	d).	Skin
87		is used as a source of o	chlori	ne in commercial practice.
	a).	Sodium hypochlorite	b).	Sodium hydroxide
	c).	Calcium oxide	d).	Sodium pyrophosphate
88	Casi	ngs from cleaned pig stomach		
	a).	Chitterlings	b).	Maws
	c).	Rounds	d).	Middles
89	Asp	iration of blood into thoracic cavity by	insert	ing knife too far towards the chest
	caus	ees		
	a).	Poor bleeding	b).	Imperfect bleeding
	c).	Back bleeding	d).	Rush bleeding
90	Equ	ipment used for slaughter must be made	of_	
	a).	Plastic	b).	Wood
	c).	Non-Corrodible material	d).	None of the above
91	Mus	cular splash caused by		_•
	a).	Delay between stunning and sticking	b).	Transportation
	c).	Hanging	d).	None of the above
92	Pelt	burn seen in		
	a).	Pig	b).	Sheep
	c).	Calf	d).	Cattle
93	Larg	ge animal skin is called as		
	a).	Calfskin	b).	Kip
	c).	Hide	d).	None of the above
94	Skin	a composed ofha	s maj	or component.
	a).	Collagen	b).	Keratin
	c).	Both a and b	d).	None of the above
95	Hva	luronidase is extracted from	and	used as "spreading factor"

	a).	Testes	b).	Thymus
	c).	Thyroid	d).	Pancreas
96	A ca	arcass from which meat has been sent to	labo	ratory for further examination/tes
	at po	ost mortem examination is sent to		
	a).	Condemned meat room	b).	Isolation Block
	c).	Detained meat room	d).	Lairage
97	Aniı	mals affixed the tag "S', at ante mortem	insp	ection is sent to
	the_			
	a).	Condemned meat room	b).	Isolation Block
	c).	Detained meat room	d).	Lairage
98	The	gradient in a ramp for loading animals	shoul	d be less than
	a).	10°	b).	20°
	c).	30°	d).	40°
99	Mea	t containing sarcocyst is		
	a).	Rejected on aesthetic ground	b).	Rejected due to zoonoses
	c).	Passed	d).	Passed with caution of cooking
100	Wat	er must be distributed to all parts of the	plant	t under adequate
	pres	sure		
	a).	20 psi	b).	30 psi
	(10	40 nai	4)	50 noi

Answer Key

Sr. No.	Answer						
1	A	26	D	51	D	76	D
2	В	27	D	52	В	77	A
3	A	28	A	53	С	78	A
4	C	29	В	54	A	79	C
5	D	30	A	55	A	80	D
6	В	31	D	56	C	81	В
7	D	32	A	57	A	82	D
8	A	33	В	58	A	83	В
9	В	34	C	59	В	84	A
10	A	35	D	60	A	85	В
11	В	36	A	61	C	86	A
12	В	37	A	62	A	87	A
13	В	38	A	63	В	88	В
14	D	39	A	64	В	89	C
15	D	40	В	65	D	90	C
16	C	41	A	66	A	91	A
17	C	42	A	67	В	92	В
18	D	43	D	68	C	93	C
19	C	44	В	69	A	94	A
20	A	45	C	70	A	95	A
21	A	46	С	71	В	96	C
22	В	47	D	72	A	97	В
23	С	48	A	73	В	98	В
24	D	49	В	74	С	99	A
25	D	50	C	75	D	100	A

VETERINARY PREVENTIVE MEDICINE

1.	The following	ng disease causes cyanosis of co	omb	and swelling of wattle in poultry
	except			
	a. Avia	n influenza	b.	Newcastle disease
	c. Avia	n pasteurellosis	d.	Infectious bronchitis
2.	The change	of voice in dog affected with ra	bies	is differentiated with
	a. Tryp	anosomiosis	b.	Canine babesiosis
	c. Cani	ne distemper	d.	None of the above
3.	Blue tongue	is transmitted through		
	a. Culi	coides	b.	Melophagus ovinus
	c. Sem	en	d.	All the above
4.	The following	ng diseases causes corneal opac	ity i	n dog except
	a. Tryp	oanosomiasis	b.	Canine Ehrlichiasis
	c. Lept	ospirosis	d.	Infectious canine hepatitis
5.	-	e choice of sample for diagnosis	s of	
		ine viral diarrhoea	b.	Infectious bovine rhinotracheitis
	c. Foot	and mouth disease	d.	a&b
6.	Treatment o	f choice for Babesia gibsoni int	fecti	on in dog
		vaquone	b.	
	c. Imid	ocarb	d.	All the above
7.	Tetanospasr	nin block the release of		
	a. GAI	BA	b.	Acetylcholine
	c. Dop	amine	d.	None of the above
8.	The most co	ommonly used antihelmintic for	Tox	cocara canis in pups
	a. Pyra	ntel pamoate	b.	Fenbendazole
	c. Praz	iquantel	d.	a&b
9.	Which of th	e following disease causes Moo	n bl	indness in horse
	a. Lept	ospirosis	b.	Brucellosis
	c. Equi	ne infectious anaemia.	d.	Babesiosis
10.	The choice	of disinfectant for viral disease		
	a. Sodiu	ım hypochlorite	b.	Quarternary ammonium compound
	c. Iodo	phor	d.	None of the above
11.	Permissible	level of aflatoxin in poultry fee		
	a. 20 p	pb	b.	2.0 ppm
	c. 0.00	2 ppm	d.	200 ppb
12.	Listeriosis i	n sheep is managed with		
	a. Penicil	lin G@ 44000 IU/Kg b.wt	a.	Dexamethasone @ 1.0mg/kg b.wt
	c. Neurot	ropic vitamins	d.	All the above
13.		disease in avian population is c		
13.		ootics		Enzootic
	c. Epoi			Panzootic
14.	-	haviour in dog is caused by		, , , , , , , , , , , , , , , , , ,
-		nylidium caninum	b.	Diphylobothridium latum
	-	inococcus granulosus	d.	None of the above
		0		* -

15.	Terminal dry gangrene and polyarthritis i	n calves is caused by				
	a. Salmonella Dublin	b. Salmonella typhimurium				
	c. Salmonella newport	d. Salmonella arizonae				
16.	Induration of udder with enlargement of supramammary lymph node occur in					
	a. Tubercular mastitis	b. Staphylococcal mastitis				
	c. Mycoplasmal mastitis	d. Leptospiral mastitis				
17.	· -	ed by Cervical mucus agglutination test in				
17.	cattle	od by Cervical macus aggramation test in				
	a. Trichomoniasis	b. Genital campylobacteriosis				
	c. Salmonellosis	d. a &b				
18.	Hyperglycemia and glycosuria one of the with	biochemical changes in sheep affected				
	a. Pulpy kidney disease	b. Rabies				
	c. Struck	d. a&b				
19.	Which species are relatively resistant to	anthrax				
	a. Dog and cat	b. Sheep				
	c. Horse	d. Cattle				
20.	Investigation of relationships between dis	sease and hypothesized causal factors in a				
	study population is known as					
	a. Case control study	b. Cross sectional study				
	c. Cohort study	d. Experimental study				
21.	Which of the following disease causes di	arrhoea without straining in cattle				
	a. Salmonellosis	b. Bovine viral diarrhoea				
	c. Johnes disease	d. Coccidiosis				
22.	Which of the following vaccines are not	effective for goats				
	a. Tetanus toxoid	b. Black quarter vaccine				
	c. Enterotoxaemia vaccine	d. Anthrax spore vaccine				
23.	Which of the following diseases cause in dog	nmune mediated haemolytic anaemia in				
	a. Leptospirosis	b. Canine Babesiosis				
	c. Canine Ehrlichiasis	d. b&c				
24.	Drug of choice for haemorrhagic septicae					
	a. Sulphadimidine @ 150mg/Kg	b. Sulphadimidine@ 100mg/Kg				
25	c. Oxytetracycline@ 10mg/kg	d. Oxytetracycline @ 20mg/Kg				
25.	Transmission of leptospirosis in dog thr	•				
	a. Urine	b. Rodents				
2.	c. Skin penetration	d. All the above				
26.	Disinfectant for foot and mouth disease	1 1 20/ 1: 1 1 :1				
	a. 4% sodium carbonate	b. 1-2% sodium hydroxide				
27	c. 1-2% Formalin	d. All the above				
27.	Sulphur granules in pus are seen in					
	a. Actinobacillosis	b. Actinomycosis				
	c. Strangle	d. a&b				

28.	Brucella ovis in sheep is mainly transmit a. Venereal	ted through b. Ingestion
	c. Contact	d. Conjunctiva
29.	Which of the following disease causes Pl	5
2).	a. Contagious bovine	b. Tuberculosis
	pleuropnemonia	o. Tuodiculosis
	c. Pneumonic pasteurellosis	d. Infectious bovine rhinotracheitis
30.	Screening test for diagnosis of pullorum	
	a. Rapid Whole blood	b. ELISA
	agglutination test	======
	c. tube agglutination test	d. AGID
31.	Age of foot and mouth disease vaccination	
	a. 4 month	b. 6 months
	c. 8 month	d. 1 yr
32.	Prolonged antibiotic treatment results in	
	a. Candida sp	b. Aspergillus sp
	c. Sporotrichum sp	d. None of the above
33.	Shaker foal syndrome is a disease caused	l by
	a. Wound botulism	b. Forage botulism
	c. Carrion associated botulism	d. Toxico-infectious botulism
34.	False black leg in sheep is associated with	ith
	a. Clostridium chauvoei	b. Clostridium septicum
	c. Clostridium novyi	d. b&c
35.	Which of the following species is resistant	nt to aflatoxicosis
	a. Chicken	b. Turkey
	c. Duck	d. Ruminants
36.	Which of the following causes recurrent:	mastitis in cattle
	a. Klebsiella sp	b. Staphylococcus aureus
	c. E.Coli	d. Enterococcus faecalis
37.	_	on of abscess in any organs of the body in
	horses infected with strangles known as	
	a. Chondroids	b. Muscle infarction
20	c. Guttoral pouch empyema	<u> </u>
38.	The deficiency of mineral in cattle affect	•
	a. Magnesium	b. Phosphorus
20	c. Calcium	d. Zinc
39.	An anti-cestodal drug used for used for t	reatment of Nasai Schistosomiasis in
	cattle	b Desgiouental
	a. Niclosomide	b. Praziquanteld. Albendazole
40.	c. Nitroxynil	d. Albendazole
40.	Coggins test is used for diagnosis of a. Equine influenza	h Fauina viral rhinannaumanitis
	c. Equine infectious anaemia	b. Equine viral rhinopneumonitisd. African horse sickness
41.	Which of the following causes Ring worn	
11.	a. Q-fever	b. Aspergillosis
	c. Enzootic abortion	d. Brucellosis
	c. Elizootic abortion	G. DIUCCHOSIS

42.	Tilli shehed egg and sheh-less are not	iceu III			
	a. Infectious bronchitis	b. New castle disease			
	c. Egg drop syndrome	d. a&c			
43.	Arsenical compounds are used for trea	atment of			
	a. Coccidiosis	b. Hook worm			
	c. Heart worm	d. a&c			
44.	Ivermectin is contraindicated in collie	breeds of dogs due to			
	a. Mutation of MDR1 gene	b. Presence of M protein			
	 c. Mutation of NDRI gene 	d. Anaphylactic reaction			
45.	The test is used to measure the protec	tive antibody titre against Rabies			
	a. RFFIT	b. Direct FAT			
	c. Indirect ELISA	d. SNT			
46.	Which of the following causes blindne	ess in sheep			
	a. Gid	b. Listeriosis			
	c. Rabies	d. a&b			
47.	Number of instance of disease or cases in a known population at designated time i				
	called as				
	a. Prevalence	b. Incidence			
	c. Cumulative incidence	d. None of the above			
48.	The disease is not cause paralysis in pe				
	a. Mareks disease	b. Infectious bronchitis			
	c. New castle disease	d. Avian influenza			
49.	Trickle infection in poultry is used for	control of			
	a. Coccidiosis	b. Ascariasis			
	c. Avian trichomoniasis	d. Nodular taeniasis			
50.	The test used to measure the protective	e antibody titre in dog with canine distemper			
	vaccination				
	a. SNT	b. ELISA			
	c IFAT	d IPT			

Answer key

				•	•	•	
1.	d	16.	a	31.	a	46.	d
2.	a	17.	d	32.	a	47.	a
3.	d	18.	d	33.	d	48.	b
4.	c	19.	a	34.	d	49.	a
5.	d	20.	b	35.	d	50.	a
6.	d	21.	С	36.	b		
7.	a	22.	С	37.	d		
8.	d	23.	d	38.	c		
9.	a	24.	a	39.	b		
10.	a	25.	d	40.	a		
11.	a	26.	d	41.	b		
12.	d	27.	d	42.	d		
13.	С	28.	a	43.	d		
14.	a	29	b	44.	a		
15.	a	30.	a	45.	a		

VETERINARY ANATOMY

OSTEOLOGY

1. Axis is otherwise known	wn as		
a) Vertebra prominence	b) Vertebra der	<mark>ntata</mark>	
c) Ambiguous vertebra	d) Thoracic ver	rtebra	
2. Which vertebra is cal	led as vertebra p	rominence	
a) 6 th cervical b) 7 th cervical	c) 4 th cervical	d) 5 th c	ervical
3. Synsacrum is present	tin		
a) Horse b) Cattle	c) Fowl	d) Dog	
4. Sulcus vasculosus is t	for the passage o	of	
a) Middle sacral artery	b) Middle co	ccygeal artery	
c) Lateral coccygeal artery	d) Femoral arte	ery	
5. Uncinate process is p	resent in the ribs	s of	
a) Horse b) Dog	c) Fowl	d) Ox	
6. The number of sterne	brae in ox		
a) 6 b) 5	c) <mark>7</mark>	d) 8	
7. Anterior extremity of	the sternum is c	alled	
a) Xiphisternum	b) Mesosternur	n	
c) Manubrium sternum	d) Keel		
8. Boat shaped sternum	is present in		
a) Ox b) <mark>Horse</mark>	c) Dog	d) Pig	
9. Identify the cranial bo	one		
a) Nasal b) Vor	ner	c) <mark>Temporal</mark>	d) Malar
10. One of the following	is an unpaired b	one	
a) Frontal	b) Parietal	c) Sph	enoid d) Temporal
11. Identify the facial bor	ne		
a) Occipital b) Ethi	moid	c) Lacrimal	d) Parietal
12. Largest foramen in th	e skull is		
a) Foramen lacerum	b) Foramen orb	oitorotundum	
c) Foramen magnum	d) Optic foram	en	

13. Cramai and ii	asai cavity com	municates unc	ougn		
a) Lateral ma	sses of ethmoid				
b) Ventral nas	sal meatus				
c) Cribriform	plate of ethmoi	d			
d) Dorsal nas	al meatus				
14. Sella turcica l	lodges the				
a) Pineal gland	b) Pituitary gl	<mark>and</mark>	c) Thyroid gla	and	d) Adrenal
gland					
15. Facial tuberos	sity is present al	bove the level	of		
a) 3 rd cheek tooth	b) 1 st cheek to	oth c) 4 th	cheek tooth	d)2 nd c	heek tooth
16. Longest bone	in the body of	fowl is			
a) <mark>Tibio –tarsus</mark>	b) femur	c) Tarso - me	tatarsus		
17. Third trochan	ter (or) trochan	ter tertius is pr	esent in the fen	nur of	
a) Ox b) She	eep c) <mark>Hor</mark>	se d) Go	at		
18. The posterior	extremity of the	e sternum pres	ents cartilage		
a) Meniscus	b) Carini	form	c) Ellipsoid		d) Xiphoid
19. Tibia is situat	ed between the				
a) Hip and stifle	b) stifle and h	ock c) Sho	oulder and elbo	W	d) Hock and
pastern					
20. In fowl, sciati	ic foramen of C	Os coxae is for	med between th	e	
a) <mark>Ilium and ischium</mark>	b) Ischium and	d pubis			
c) Ilium and Pubis	d) Pub	is and femur			
21. Which one of	the following i	s named as Os	navicularis		
a) Distal sesamoid	b) Prox	ximal sesamoi	d		
c) Dorsal sesamoid	d) Fabella				
22. Largest carpa	l bone in horse				
a) Radial carpal		b) Third carp	<mark>al</mark>		
c) Fused second and	third carpal	d) Fourth car	pal		
23. Pulley – like	articular area is	termed as			
a) Crest	b) Condyle	c) Trochlea	d) Ellipsoid		

24. Deltoid tuberosity is	present on the	lateral surf	ace of	
a) Scapula b) Rac	lius c) <mark>Hu</mark>	<mark>merus</mark> d) Femur	
25. Bones found in the so	oft tissues and	which don	't form a par	t of the regular skeleton
a) Sesamoid b) Heterotrop	hic bones	c) Short	bones	d) Irregular bones
26. Which one of the foll	owing is an ab	orted long	bone?	
a) Ulna of Ox b) <mark>Uln</mark>	a of Horse	c) Ribs o	f ox d) Rib	os of horse
27. Glenoid cavity of the	scapula articu	lates with		
a) Head of Femur	b) Head of H	<mark>umerus</mark>		
c) Condyle of Tibia d) Rac	lius			
28. In dog, Coronoid and	Olecranon fos	ssa commu	nicates throu	igh the
a) Supratrochlear foramen	b) Nutrient fo	oramen		
c) Foramen magnum	d) Foramen to	ransversari	um	
29. Point of elbow is form	ned by			
a) Anconeus process	b) Olecranon	Process		
c) Semilunar notch	d) Radial tub	erosity		
30. Identify the vertebral	formula of Ox			
a) C_7 C_{13} C_6 C_{5} C_{918-20}				
b) C ₇ T ₁₈ L ₆ S ₅ Cy ₁₅₋₂₁				
c) C ₇ T ₁₃ L ₇ S ₃ Cy ₂₀₋₂₃				
d) C ₁₃₋₁₄ T ₇ LS ₁₄ Cy ₇				
31. Number of radio – ul	nar arch in hor	se		
a) <mark>One</mark> b) Two	c) Three	d) Four		
32. Typical pectoral gird	le consists of			
a) Scapula alone		b) Scapu	la and Clavi	cle
c) Scapula, Clavicle and Cor	ocoid d) Cla	vicle and	coracoid	
33. Depression leading to	two or more f	foramina is	called	
a) <mark>Hiatus</mark> b) Sinus	c) Foramen	d) Meatu	ıs	
34. Os phrenic is present	in			
a) Ox b) Pig	c) Camel	d) Dog		
35. Father of Anatomy is				

a) Hippocrates	b) Aristotle	c) Pythogoras	d) Sisson			
36. Connective tissue covering of the bone is called						
a) Capsule	b) Perichondrium	c) Periosteum	d) Perimysium			
37. In domestic fowl	the clavicles of two	sides unite to form a	plate called			
a) Epicleidium	b) Hypocledium	c) Keel	d) Pectoral girdle			
38. Longest and mass	sive bone in the boo	ly of mammals is				
a) Humerus	b) Tibia	c) Femur	d) Metacarpal			
39. A small non – art	icular sulcus in the	head of the femur is				
a) Fovea capitis	b) Fossa atlantis	c) Fovea dentis	d) Foramen capitis			
40. In mammals tarsa	al bones are arrange	ed inrows				
a) One row b) Two ro	ws c) Th	nree rows d) Fou	r rows			
41. A medial projecti	on present in the fil	bular tarsal is called				
a) Calcaneal tuber	b) Sustentaculum	talli c) Tallus	d) Tuber calicis			
42. Mamillary and ac	ecessory processes a	are prominent in verteb	orae of dog			
a) Sacral	b) Cervical	c) Thoracic	d) Lumbar			
43. "V" shaped bones	s present on the ven	atral aspect of the cocc	ygeal vertebra of dog is			
called						
a) Chevron bones	b) Hemal processe	es c) Pygostyle	d) Fabella			
44. Pyramid shaped l	ast coccygeal verte	bra of fowl is called				
a) Tallus	b) Hypocledium	c) Pygostyle	d)Uncinate			
process						
45. The anterior extremity of horse sternum presents cartilage called						
a) Xiphoid	b) Cariniform	c) Meniscus	d) Ellipsoid			
46. The hardest bone	46. The hardest bone in the body of mammals is					

a) Lumb	ar vertebrae	b) Squamous occip	pital	c) Petrous tem	<mark>iporal</mark>	d) Frontal
47. Thin, scroll – like bone in the nasal cavity is						
a) Hyoid		b) Vomer	c) Sp	henoid	d) <mark>Turl</mark>	<mark>binate</mark>
48. C	Optic foramen is	for the passage of				
a) Oculo	motor nerve	b) Ethmoidal nerv	e	c) Optic nerve		d) Olfactory
nerve		,		,		,
49. F	acial bone situa	ted between the ver	tical r	ami of the mandib	le is	
a) <mark>Hyoid</mark>	b) Vomer	c) Parietal	d) Na	asal		
50. P	oint of croup is	formed by				
a) Tuber	coxae alone		b) Tu	uber ischii and Tro	ochante	er major
c) Tuber	sacrale and med	dian sacral crest	d)Tu	ber ischii alone		
ARTHR	OLOGY					
1. I	n fibrous joints	the opposing ends o	f bone	es are united by		
	ite fibrous tissue		b)	Elastic tissue		
c) Car	tilage		d)	Bone		
2. s	utures are					
a) Am	phiarthroses		b)	Movable joints		
c) Dia	rthroses		d)	Immovable joints	<mark>S</mark>	
3. I	ntermetacarpal a	articulations in horse	e is			
a) Syn	chondroses		b)	Syndesmoses		
c) Arth	nrodial		d)	Amphiarthroses		
4.	Occipito sphenoi	d articulation is				
a) Syn	ostosis		b)	Syndesmoses		
c) Syn	<mark>chondroses</mark>		d)	Arthrodial		
5. C	Ossification of jo	oint with advancing	age is	known as		
a) Syn	<mark>ostosis</mark>		b)	Syndesmoses		
c) Syn	chondroses		d)	Arthrodial		

6.	Elbow is a		
a)	Condyloid joint	b)	Arthrodia joint
c)	Ellipsoidal joint	d)	Ginglymus joint
7.	Atlanto axial joint is		
a)	Ginglymus joint	b)	Trochoid joint
c)	Condyloid joint	d)	Ellipsoidal joint
8.	Temporomandibular articulation are	:	
a)	Diarthrodial	b)	Synarthrodial
c)	Amphiarthrodial	d)	Synchondroses
9.	In cartilagenous joints the bones are	united	d by
a)	Bone	b)	Cartilage
c)	Elastic fibres	d)	White fibrous tissue
10.	Amphiarthroses are		
a)	Primary cartilaginous joints	b)	Secondary cartilaginous joints
c)	Tertiary cartilaginous joints	d)	Quartenary cartilaginous joints
11.	Diarthroses are		
a)	Synovial joints	b)	Primary cartilaginous joints
c)	Fibrous joints	d)	Secondary cartilaginous joints
12.	Articular cartilages in synovial joint	s are	
a)	Fibrocartilage	b)	Elastic cartilage
c)	Hyaline cartilage	d)	Fibro elastc cartilage
13.	Each intervertebral disc consists of	a centr	ral soft, pulpy sub called
a)	Annulus fibrosus	b)	Annulus pulposus
c)	Nucleus fibrosus	d)	Nucleus pulposes
14.	A ligament surrounding the joint is	called	
a)	Collateral ligament	b)	Capsular ligament
(۵			
c)	Annular ligament	d)	Interosseus ligament
15.	Annular ligament Cervical part of the supraspinous lig	,	C
	_	,	O
15.	Cervical part of the supraspinous lig	ament	t is called as
15. a)	Cervical part of the supraspinous lig Superior check ligament	gament b) d)	t is called as Inferior check ligament

c) Medial occipital protruberance d) Lateral occipital protruberance 17. "C" shaped inter – articular cartilages between the condyles of the tibia and femur a) Annulus pulposus **Menisci** Nucleus fibrosus Nucleus pulposes 18. Hyoid bone is for Mastication and deglutition a) Mastication only b) Deglutition only None of the above d) 19. Occipito atlantal joint is Trochoid joint Arthrodia b) a) Ginglymus joint Enarthroses 20. Shoulder joint is Enarthroses Ginglymus b)

MYOLOGY

Symphysis

- 1. Accessory structures of the muscle are
- a) Blood vessels and nerves
- b) Bones and ligaments
- c) Fascial and synovial membrane
- 2. Basic property of muscular tissue is
- a) Contraction
- b) Irritability
- c) Conduction

d)

Trochoid

- 3. Which one of the following statement is correct?
- a) Origin of a muscle is fixed and insertion is movable
- b) Insertion of a muscle is fixed and origin is movable
- c) Both are fixed attachments
- 4. Band of white fibrous tissue attaches muscle to bone is
- a) Ligament
- b) Aponeurosis
- c) Tendon
- 5. A broad sheet of white fibrous tissue attaches muscle is
- a) Tendon
- b) Aponeurosis c) Ligament
- 6. Active part of the locomotive apparatus is formed by
- a) Bone
- b) Muscle
- c) Joints

7. Synovial sheath encircles thea) Tendonb) Bonec) Muscle	
8. Connective tissue covering the individual muscle fibre in a) Endomyseum b) Perimyseum c) Epimyseum	
9. Connective tissue covering the muscle fasciculia) Endomyseumb) Perimyseumc) Epimyseum	
10. Connective tissue covering the whole muscle isa) Endomyseumb) Perimyseumc) Epimyseum	
11. Cutaneous muscle developed in a) Superficial fascia b) Deep fascia c) Both	
12. Cutaneous Omobrachialis covers the a) Lateral aspect of the shoulder and arm b) Lateral aspect of the abdomen c) Ventral aspect of the abdomen 13. Muscle used to drive away the insects that bites the animal a) Transverse thoracis b) Diaphragm c) Cutaneous muscle	
14. Cervical part of cutaneous colli is present ina) Oxb) Horsec) Sheep	
15. Action of pectoral muscles is to a) Abduct the limb b) Abduct the limb c) Rotate the limb	
16. Which one of the following muscle originates form ligamentum nuchae and appraspinous ligament a) Lattissimus dorsi b) Deep pectoral c) Trapezius	
17. Muscle that extends from head along the neck to the arm a) Sterno cephalicus b) Omotransversarius c) Brachiocephalicus	<mark>IS</mark>
18. In Ox, dorsal part of the brachiocephalicus is called a) Cleido-mastoideus b) Cleido-Occipitalis c) Sternomastoideus	S
19. Muscle which originates from the lumbo-dorsal fascia a) Teres major b) Rhomboideus c) Latissimus dorsi	
20. Which one of the following is a cutaneous muscle?a) Omohyoideusb) Omobrachialisc) Omotransversarius	
21. Two divisions of the brachiocephalicus are	

c) Sternomandibularis and sternomastoideus	
22. Muscle included between the flaps of the flank isa) Obliques abdominis externusb) Obliques abdominis internusc) Cutaneous trunci	
23. Coracobrachialis originates froma) Coracoid processb) Deltoid tuberosityc) Acrom	ian process
 24. Two heads of the deltoideus muscle are a) acromial and scapular head b) deltoid and scapular head c) Medial and lateral head 	
25. In Ox Subscapularis has a) 3 fleshy parts b) 2 fleshy parts c) 4 fleshy parts	
26. The origin of Biceps brachii muscle a) Coracoid process b) Tuberscapulae c) Deltoid	l tuberosity
27. Largest division of Triceps brachiia) Long headb) Medial headc) Lateral head	
28. Musculospiral groove is for the lodgement of a) Coracobrachialis b) Brachialis c) Biceps brachii	
29. Muscle originates from the margins of olecranon fossa a) Anconeus b) Tensor fascia antibrachi c)	Deltoideus
30. Which one of the following muscle is used to approximate a) Medial digital extensor b) Common digital extensor c) extensor	e the digits? Lateral digital
31. Which one of the following muscle is used to extend the c elbow?a) Medial digital extensor b) Extensor carpi radialis c) La	•
32. Extensors of the forearm are grouped around a) Dorsal aspect b) Volar aspect c) Dorsolateral a	spect
33. A small vestigeal muscle among the flexors of the forearm a) Flexor carpi ulnaris b) Pronator teres c) Fexor (c)	n <mark>carpi ulnaris</mark>

34. A flexor situated on the dorsolateral aspect of the forearm a) Flexor carpi ulnaris b) Pronator teres c) Ulnaris lateralis
35. Omotransversarius is absent in a) Horse b) Ox c) Buffaloe
36. Three digits of deep digital flexor area) Scapular, acromial and radialb) Radial, ulnar and scapularc) Radial, ulnar and humeral
37. Flexors of the forearm are grouped on the a) Dorsal aspect b) Volar aspect c) Dorsolateral aspect
38. Deepest and smallest head of the deep digital flexor a) Radial head b) ulnar head c) Humeral head
39. Which one of the following is situated between flexor carpi ulnaris and ulnaris lateralis?a) Flexor carpi radialisb) Superficial digital flexorc) Ulnar head of deep digital flexor
40. The most superficial head of deep digital flexor a) Radial head b) Humeral head c) Ulnar head
41. The muscle situated between the Medial and Lateral digital extensor is a) Ulnaris laterlis b) Extensor carpi radialis c) Common digital extensor
42. The muscle situated between the flexor carpi ulnaris and deep digital flexor is a) Ulnaris lateralis b) Superficial digital flexor c) Extensor carpi radialis
43. Which one of the following is present on the shoulder lateral aspect? a) Deltoideus b) subscapularis c) Teres major
44. Anterior most muscle of the arm is a) coracobrachialis b) medial head of triceps c) Biceps brachi
45. Which one of the following muscle is inserted on the medial aspect of the scapular cartilage?a) Trapeziusb) Rhomboideusc) Brachiocephalicus
a) Trapezius b) Rhomboideus c) Brachiocephalicus 46. Upper boundry of jugular furrow is formed by a) Brachiocephalicus b) Sternocephalicus c) Omotransversarius

47. Between the brachiocephalicus and Omotransversarius which of the following nerve

branch Passing through?

- a) Spinal accessory
- b) Cervical spinal nerve
- c) 12th cranial nerve
- 48. Largest of the extensor muscles of the forearm
- a) Medial digital extensor radialis
- b) Common digital extensor c) Extensor carpi

49. Largest of the flexor muscles of the forearm

- a) Superficial digital flexor
- b) ulnaris lateralis
- c) Deep digital flexor
- 50. Which one of the following muscle has 3 heads of origin?
- a) Deep digital flexor
- b) flexor carpi ulnaris
- c) Superficial digital flexor

MYOLOGY ANSWERS:

- 1. c
- 2. a
- 3. a
- 4. c
- 5. b
- 6. b
- 7. a
- 8. a
- 9. b
- 10. c
- 11. a
- 12. a
- 13. c
- 14. b
- 15. b
- 16. a
- 17. c
- 18. b
- 19. c
- 20. b 21. b
- 22. c
- 23. a
- 24. a
- 25. a
- 26. b
- 27. a

29. a 30. b 31. c

28. b

- 32. c 33. c
- 34. c 35. a
- 36. c 37. b 38. a 39. c
- 40. c 41. c 42. b 43. a
- 44. c 45. b 46. a 47. b 48. c 49. c

50. a

ANGIOLOGY

- Mitral valve is situated on the left AV opening. 1.
- 2. The anterior uterine artery arises from the uteroovarian artery while the middle uterine artery arises from the large common trunk of internal iliac artery
- 3. Subcutaneous abdominal vein in cow is otherwise called as Milk vein
- 4. The left brachial artery arises from the Brachiocephalic trunk
- 5. Blood supply to the larger Blood vessel is Vasa vasorum
- 6. Pulmonary veins open into the Left atrium
- 7. Pulmonary artery arises from the Right ventricle
- 8. Aorta arises from the Left ventricle
- 9. Anterior and posterior vena cava opens into the Right atrium
- 10. Dorsal artery gives rise the first intercostal artery and Subcostal artery gives second to fifth intercostal artery.

- 11. The internal thoracic artery terminates into musculophrenic and anterior abdominal
- 12. External carotid artery divides into superficial temporal and internal maxillary artery
- 13. The common trunk from the external iliac artery divides into prepubic and deep femoral arteries.
- 14. The external jugular vein is formed by the union of superficial temporal and internal maxillary veins.
- 15. The left ruminal artery supplies the anterior 2 / 3 of the left face of rumen.
- 16. Pericardiacophrenic ligament is seen in dog
- 17. Right AV orifice is guarded by Tricuspid valve.
- 18. Splenic artery arises along with right ruminal artery
- 19. Median artery divides into Radial and ulnar arteries.
- 20. Mandibulo alveolar artery is a branch of internal maxillary artery
- 21. Intra thoracic branches of the brachial artery are inferior cervical, internal thoracic and a common trunk
- 22. The bicarotid trunk divides into two common carotid arteries.
- 23. Brachial artery emerges between dorsal and ventral divisions of scalenus muscle.
- 24. The opening of the great cardiac vein is coronary sinus
- 25. Ventricular walls of the heart bears muscular ridges trabeculae carnae except in the conus arteriosus
- 26. Pulmonary veins are 4 to 7 in number.
- 27. Rete mirable cerebri is absent in horse and dog
- 28. Protal vein is formed by the union of gastric and mesenteric trunks.
- 29. The chief collecting trunk of lymphatic system is thoracic duct
- 30. Ciliary artery is a branch of ophthalmic artery
- 31. The beginning of aorta is called bulbus aorta
- 32. Inferior cervical artery arises from brachial artery
- 33. Mammary gland is supplied by subcutaneous abdominal artery
- 34. The internal iliac artery terminates by dividing into posterior gluteal and internal pudic arteries.

- Bronchial artery supplies nutritional blood to lungs. 35.
- 36. Pulmonary artery supplies functional blood to lungs.
- 37. Impression of heart is seen in the liver of fowl (species).
- 38. The base of the heart lies opposite to second intercostal space to sixth rib.
- 39. The gastro duodenal artery divides into pancreatico duodenal and right gastroepiploic arteries
- 40. The left AV opening is guarded by bicuspid valve.
- 41. Reticular artery is a branch of left ruminal artery.
- 42. The jugular vein drains into the anterior vena cava.
- 43. Extensors of the forelimb are supplied by collateral radial artery
- 44. Flexors of the forelimb are supplied by median artery except ulnaris lateralis which is supplied by collateral radial artery
- 45. Supraspinatus muscle is supplied by suprascapular artery
- 46. Anterior gluteal artery supplies the gluteal muscle.
- 47. Posterior gluteal artery supplies the biceps femoris.
- 48. Coeliac artery is a branch of abdominal aorta
- 49. Anterior tibial artery is the continuation of popliteal artery.
- 50. The three branches of the short common trunk of the internal iliac artery are sixth lumbar, lateral sacral and anterior gluteal
- 51. The ramus collateralis supplies the posterior one third of the small intestine
- 52. The prepubic artery terminates into internal pudic and posterior abdominal arteries.
- 53. External iliac vein drains the blood from hindlimb.
- 54. The saphenous artery arises from the femoral artery at the lower third of the femoral canal.
- 55. An unpaired vein attains the blood from left side of the body is venahemiazygos and a similar vein on the right side is called azygos vein
- 56. The right brachial artery arises from brachiocephalic artery and the left brachial artery arise from common brachiocephalic trunk
- 57. The thoraco – dorsal artery is a branch of subscapular artery supplying the latissimus dorsi

- 58. Coronary artery supplies blood to the heart.
- 59. The four heads of quadriceps are supplied by anterior femoral artery
- 60. Ramus collateralis is a branch of anterior mesenteric artery
- 61. Moderator band extends from the interventricular septum to the lateral wall of the ventricle.
- 62. Umbilical artery forms the round ligament of the bladder.
- 63. The common carotid artery terminates into occipital, external maxillary and external carotid arteries
- 64. Inferior cervical artery arises from brachial aretery
- 65. The hindlimb is supplied with blood by external iliac artery
- 66. Largest venous trunk in the body is posterior venacava
- 67. Ductus arteriosus connects the aorta and pulmonary artery in foetal life and in adult it is transformed into ligamentum arteriosum
- 68. Structures in the carotid sheath on the right side are common carotid artery, vagosympathetic trunk, internal jugular vein and recurrent laryngeal nerve
- 69. Structures in the carotid sheath on the left side are common carotid artery. vagosympathetic trunk and internal jugular vein
- 70. The fibroserous sac encloses the heart is called pericardium
- 71. The two small bones found in the aortic ring of old animals are called os cardis
- 72. Median artery is the continuation of brachial artery below the elbow.
- 73. The heart is situated in the middle mediastinal space of thorax.
- 74. The internal spermatic artery in female is called as utero-ovarian artery.
- 75. Superficial temporal artery supplies the horn core.
- 76. The thoracic duct is formed by the union of lumbar and gastrointestinal trunks.
- 77. The terminal branches of internal maxillary artery are malar, infraorbital, sphenopalatine and greater palatine
- 78. Deep brachial supplies all the heads of triceps.
- 79. Radio – ulnar groove lodges dorsal interosseous artery.
- 80. Sterno pericardiac ligament attachés pericardium with the sternum.
- 81. The two layers of the pericardium are fibrous and serous layers.

- 82. Fluid in the parietal and visceral layers of the serous pericardium is known as liquor pericardi
- 83. Coronary groove indicate the division between atria and ventricles.
- 84. The lining membrane which lines the interior of the heart is endocardium
- 85. A crest situated between the openings of anterior and posterior vena cava is known as intervenous crest
- 86. Musculi pectinate are the muscular ridges present in the atrium.
- 87. Trabeculae carnae are the muscular ridges present in the ventricle.
- 88. Fibrous cords arising from the free ends of the valves are known as chorda tendinae
- 89. Pulmonary orifice is guarded by three semilunar valves.
- 90. Crista supraventricularis separates the conus arteriosus frm the AV opening.
- 91. Conducting system of the heart include AV node, SA node, AV bundle and terminal sub endocardial network
- 92. Two anterior vena cava and a single posterior vena cava is present in fowl
- Eustachian valve is present in the heart of fowl 93.
- 94. Aorta is the main systemic arterial trunk.
- 95. Thoracic aorta enters into the abdomen through hiatus aorticus present in the diaphragm.
- 96. Common brachio cephalic trunk divides into brachiocephalic and left brachial arteries.
- 97. Brachio cephalic artery gives rise to right brachial artery at the level of first rib and continues as bicarotid trunk
- 98. Bicarotid trunk divides into right and left common carotid arteies.
- 99. Branches of subscapular artery are posterior circumflex of humerus, thoracodorsal and circumflex artery of scapula
- 100. Rete mirable cerebri is an four sided arterial network enclosing the diaphragm – sellae.
- 101. Rete mirable cerebri is formed by vertebral, condyloid and meningeal arteries.
- 102. Circulus arteriosus is otherwise known as Circle of Willis
- 103. **Emergent** artery arises from the superior face of the rete.

- 104. Internal iliac artery is otherwise known as hypogastric artery.
- 105. A large common trunk of interior iliac artery in female is divided into umbilical and vesical whereas in female umbilical and middle uterine artery
- 106. Middle uterine artery supplies the horn and body of uterus.
- 107. The hindlimb is supplied with blood by external iliac artery
- 108. Popliteal artery is the continuation of femoral artery
- 109. Popliteus is supplied by posterior tibial artery
- 110. Internal jugular vein is formed by the union of occipital, thyroid and laryngeal branches.
- 111. Cephalic vein is the continuation of medial metacarpal vein.
- Accessory cephalic vein is formed by dorsal metacarpal vein. 112.
- 113. In horse, the spur vein is known as subcutaneous thoracic vein.
- 114. Posterior vena cava is formed by union of two common iliac veins.
- 115. Saphenous vein is the subcutaneous vein on the medial aspect of thigh and leg.
- 116. Recurrent tarsal vein of hindlimb is used for giving I / V injection.
- 117. Cephalic vein of forelimb is used for giving I / V injection.
- 118. External jugular vein is used for giving I / V injection in large animals.
- 119. Internal jugular vein is absent in horse
- 120. Two main lymphatic ducts in the body are thoracic duct and right lymphatic duct
- 121. Thoracic duct arises from the cisterna chyli
- 122. Cisterna chyli is a reservoir of lymph formed by the union of lumbar and gastrointestinal trunk

NEUROLOGY

- The cerebellum has three peduncles namely Brachium conjunctivum, brachium 1. pontis and restiform body.
- 2. Brachial plexus is formed by the fusion of Last three cervical, and first two thoracic spinal nerves.
- 3. Cornual nerve is a branch of Trigeminal nerve.
- The terminal part of the spinal cord is called conus medullaris 4.
- 5. Brain and spinal cord is covered by a connective tissue membrane called meninges

- 6. Meninges consist of duramater, arachnoid and piamater from without inward.
- 7. The space between the arachnoid and piamater is called subarachnoid space.
- 8. The space between the duramater and arachnoid is called **subdural** space.
- 9. Olfactory nerve is the first cranial nerve.
- 10. The lingual gyri consists of vision area.
- 11. The inferior cervical ganglion unites with first thoracic ganglion to form the stellate ganglion.
- 12. Jugular ganglion is seen in the vagus nerve.
- 13. Cauda equine is seen in the spinal cord
- 14. The three branches of the Trigeminal nerve are ophthalmic, maxillary and mandibular nerve.
- 15. Trigeminal nerve is the largest cranial nerve.
- 16. The finest cranial nerve is Trochlear nerve
- 17. The widest distributed cranial nerve is vagus nerve
- 18. Two major divisions of the autonomic NS are sympathetic and parasympathetic
- 19. The dorsal surface of the corpus callosum is covered by a gray matter called indusium griseum
- 20. Nerve to diaphragm is phrenic nerve
- 21. Lumbo sacral plexus is formed by the last three lumbar and first two sacral spinal nerves.
- 22. Longest cranial nerve in the body is vagus
- 23. Sensory nerve to eye is optic nerve
- 24. Motor nerves to eye are oculomotor, trochlear and abducent nerves
- 25. The three nerves arising from the anterior division of the lumbo sacral plexus are iliopsoas, femoral and obturator nerve.
- 26. The nerve supply to the extensors of the forelimb is by radial nerve and to the flexors of the forelimb is by median nerve.
- 27. The arrangement of the cerebellum is called as arbor vitae
- 28. The third and fourth ventricles communicate through aqueduct of sylvius
- 29. The motor nerve to the muscle of the tongue is hypoglossal nerve.

- 30. The four nuclei in the basal ganglion (or) corpus striatum are caudate, lenticular, amygdaloid and claustrum
- 31. The falx cerebri is situated in the great longitudinal fissure of the cerebrum and tentorium cerebelli is situated in the great transverse fissure of the cerebellum.
- 32. The facial nerve arises from the lateral parts of the corpus trapezoideum
- 33. The cranial nerve which is having two roots of origin is spinal accessory nerve
- 34. The posterior haemorroidal nerve is derived from 3rd and 4th sacral spinal nerves
- 35. Hind limb receives nerve supply form lumbo –sacral plexus.
- 36. Fore limb receives nerve supply from brachial plexus.
- 37. ----- nerve is divide into dorsal and ventral buccal nerves.
- 38. ----- ganglion is found in the dorsal root of the spinal nerve.
- 39. Thoraco dorsal nerve supplies latissmus dorsi.
- 40. Obdurator nerve is derived from ----- division of the lumbo sacral plex.
- 10th cranial nerve is otherwise called -----41.
- 42. Right recurrent laryngeal nerve is present within the carotid sheath
- Left recurrent laryngeal nerve passes under the Oesophagus. 43.
- 44. saphenous nerve passes through the femoral canal.
- 45. Geniculate ganglion is present in facial nerves.
- 46. Semilunar ganglion is present in trigeminal nerve
- 47. The subarachnoid cysterns are cisterna magna, cisterna pontis and cisterna fossa <mark>lateralis</mark>
- 48. The biggest subarachnoid cistern is cisterna magna
- 49. The horn core is innervated by cornual nerve.
- 50. Recuurent laryngeal nerve is a branch of vagus nerve
- 51. Trochlear nerve arises from the dorsal aspect of the brain.
- 52. Anterior gluteal, posterior gluteal and sciatic nerve are the major nerves arising from the posterior division of the lumbo sacral plexus.
- 53. Sciatic nerve terminates by dividing into peroneal and tibial nerves.
- 54. Gluteal muscle are innervated by anterior gluteal nerve.
- 55. Biceps femoris are innervated by posterior gluteal nerve.
- 56. Gastrocnemius are innervated by tibial nerve.

- Complex muscle are innervated by peroneal nerve. 57.
- 58. In brain the grey matter is inside and white matter is outside.
- 59. In spinal cord the white matter is inside and grey matter outside.
- 60. Diaphragm sellae is a thick fold of duramater which surrounds the pituitary.
- 61. Subarachnoid space is filled with cerebrospinal fluid
- 62. Along the dorsal border of the falx cerebri the arachnoid bears bulbous excresences called arachnoid granulations
- 63. Folds of piamater extend into the ventricle of the brain as telachoridea of the ventricle.
- Three parts of the brain stem are Medulla oblongata, pons and cerebral peduncles 64.
- 65. Pituitary gland is otherwise known as hypophysis cerebri
- 66. Pineal gland is otherwise known as epiphysis cerebri
- 67. Pituitary is connected to the base of the brain through a hollow tube called infundibulum
- A white body situated behind the pituitary is mamillary body / corpus albicans 68.
- 69. A largest mass of commissural fibre which connects the cerebral hemispheres is called corpus callosum
- 70. An irregular cavity situated within each hemisphere is lateral ventricle
- 71. septum lucidum is the median partition between the two lateral ventricle.
- 72. The anterior end of the corpus callosum is genu and posterior end is called **splenium**
- 73. Largest sensory nuclei in the brain is the optic thalamus
- 74. An annular space around the thalamus is called third ventricle of the brain.
- 75. Pineal gland is a gland situated between the thalamus and corpora quadrigemina.
- 76. Three recesses present in the cavity of the third ventricle are pincal recess, optic recess and infundibular recess
- 77. substantia nigra red nucleus are structures placed between the corpora quadrigemia and cerebral peduncles which forms part of the extrapyramidal system.
- 78. Cerebellum is otherwise known as lesser brain
- 79. Cerebellum consists of a median vermis and two lateral hemispheres

- 80. Corpus trapezoidium is a transverse band lies behind the pons.
- 81. The fourth ventricle is otherwise known as rhomboid fossa
- 82. The fold of piamater which covers the conus medullaris is called filum terminale
- 83. Total number of spinal nerves arising form the spinal cord is 37 pairs in ox 42 pairs in horse.
- 84. Pneumo - gastric nerve is the other name for vagus nerve
- 85. Pathetic nerve is the othername for trochlear nerve
- 86. Recurrent laryngeal nerves innervates the muscle of larynx except cricothyroid.
- Two roots of the spinal accessory nerve (11th) are medullary and spinal roots. 87.
- Cochleovestibular nerve is the nerve of sense of hearing and equilibration. 88.
- 89. Posterior hemorrhoidal nerve supplies the rectum.
- 90. Radial nerve is the largest of all the nerves of the brachial plexus.
- 91. Sciatic nerve is the largest nerve in the body.
- 92. Sciatic nerve dips between the heads of the gastrocnemius and continues as tibial nerve.
- 93. Extensors of the hind limb are innervated by peroneal nerve.
- 94. Flexors of the hind limb are innervated by tibial nerve.
- 95. The efferent fibre of the ANS is characterized by the presence of ganglia
- 96. The preganglionic fibres are non medullated
- 97. In parasympathetic system, the ganglia are located in the walls of the organs supplied.
- 98. In sympathetic system, the ganglia are located close to the vertebral column.
- 99. Sympathetic ganglia are otherwise known as vertebral ganglia.
- 100. More peripherally situated sympathetic ganglia are called as collateral ganglia.
- 101. Posterior mesenteric ganglion is an unpaired ganglion of sympathetic system.

Splanchnology:

1. Study deals with the	e visceral organs of different systems in the body is
a) Splanchnolo	ogy b) Myology c) Embryology
2. Digestive system co	onsists of
a) Alimentary canal	b) Accesory organs
c) <mark>Alimentary canal ar</mark>	nd accessory organs
3. Alimentary canal is	a
a) Membranou	s tube b) Muscular tube c) Musculomembranous tube
d) Hollow tube	
4. Alimentary canal ex	ktends from
a) Oesophagus to ston	nach b) Lips to anus c) Mouth to anus
d) Mouth to rectum	
5. Which one of the fo	ollowing is an accessory organ of digestive system?
a) Stomach b) Mou	nth c) Liver d) Pharynx
6is the first s	ection of the alimentary canal
a) Cavum oris	b) Rima oris c) Isthmus faucium d) Pharynx
7. The space between	the root of the tongue, soft palate and epiglottis is
a) Hyo-epiglottic spac	b) Glosso-epiglotic space c) Vestibule
d) Cavum oris propriu	as .
8. Anterior opening of	the mouth is
a) Cavum oris	b) Rima oris c) Isthmus faucium d) Vestibule
9. Portion of mouth ca	wity between the teeth and cheek is
a) <mark>Vestibule</mark>	b) Cavum oris proprium c) Rima oris
10. Cavum oris is long	gest in
a) Dog	b) Ox c) Horse d) Pig
11. Rima oris is most	extensive in
a) Ox	b) Dog c) Sheep d) Fowl

12.	Cavum oris is t	riangular in sha	pe in		
	a) <mark>Fowl</mark>	b) Pigs	c) Rabbit	d) Ox	
13.	Identify the con	rrect answer			
	a) Vestibul	e is absent in for	wl		
	b) Canine to	eeth absent in do	og		
	c) Dental p	ad is absent in r	uminants		
	d) Upper lij	p is not mobile i	n fowl.		
14.	Upper lip is mo	ore mobile than	the lower lip in		
	a) Ox	b) <mark>Horse</mark>	c) Pig		
15.	In Ox commiss	sures are situated	l	-	
	a) At the le	vel of first cheel	k tooth		
	b) 5 cm bel	nind the corner i	ncisor		
	c) At the le	vel of canine too	oth		
	d) At the le	vel of 3 rd or 4 th	cheek tooth		
16.	Lips are not the	e organ of prehe	nsion in		
	a) Horse	b) Sheep and	d Goat c) Ox	d) Pig	
17.	Philtrum is abs	ent in			
	a) Ox	b) Dog	c) Horse	d) Rabbit	
18.	Muzzle is situa	ated in the			
	a) Lower li	p b) <mark>U</mark>	<mark>pper lip</mark>	c) Commissure	
19.	Frenula labii ex	ktends from			
	a) <mark>Lips to g</mark>	tums b) G	ums to tongue	c) Tongue to flo	or of the mouth
	d) Upper lij	p to lower lip			
20.	Muzzle is abse	nt in			
	a) Ox	b) Horse	c) <mark>Rabbit</mark>	d) Sheep	
21.	Papilla salivali	s shows the oper	ning of		
a) <mark>P</mark>	<mark>arotid gland</mark>	b) Mandibular g	land c) Maxil	lary gland d) Zy	gomatic gland
22.	Stenson's duct	is the duct of			
	a) Mandibu	ılar gland b) <mark>Pa</mark>	nrotid gland c)	Sublingual gland	d) Buccal gland

23. In Ox, Papilla salivalis is seen at the level of
a) Upper 5 th cheek tooth
b) Upper 3 rd cheek tooth
c) Upper 4 th cheek tooth
d) Canine tooth
24. Papilla salivalis is at the level of upper 3 rd cheek tooth in
a) Horse and Dog b) Dog and Ox c) Horse and Ox d) Ox and Rabbit
25. Zygomtic glands are present in
a) Dog b) Ox c) Horse d) Sheep
26. Mucous membrane lining the gum has
a) Serous glands b) Mucous glands c) No glands d) Mixed glands
27. Dental pad is the characteristic feature of
a) Ruminants b) Horse c) Dog d) Fowl
28. Dental pad is associated with
a) Maxilla b) Premaxilla c) Nasal bone d) Malar
29. Oral opening of the Nasopalatine duct is at the
a) Papilla incisiva b) Ductus incisivus c) Barb d) Papilla of cheek
30. In Horse, dental pad is replaced by
a) 6 alveoli b) 4 alveoli c) 8 alveoli d) 2 alveoli
31. In dog, Papilla incisiva is situated
a) Between the ridges of hardpalate
b) Between the dental pad and first pair of ridge
c) Behind the 2 nd pair of incisors
32. Except during deglutition, the mouth is separated from the pharynx by
a) Soft palate b) Cheeks C) Hard palate d) Anterior pillars
33. The space between the anterior and posterior pillars of the soft palate is called
a) Tonsillar sinus b) Glosso-epiglottic space c) Vestibule d) Soft palate
34. Soft palate is long and closes the Isthmus faucium in
a) <mark>Horse</mark> b) Dog c) Ox d) Fowl
35. Oral breathing is not possible in
a) Equidae b) Suidae c) Ruminants d) Canines

36. A medial 1	orolongati	on of the s	oft palate	in Pig is term	ied	
a) <mark>Uvu</mark>	<mark>la</mark> b)) Anterior	pillar	c) Posterior 1	pillar	
37. Soft palate	is absent	in				
a) Fow	<mark>1</mark>	b) D	og	c) Rabbit	d) Pig	
38. Palatine to	nsil is wel	ll develope	ed in			
a) Ox	b)) <mark>Dog</mark>	c) Hor	se		
39. Franum lin	iguae is do	ouble in				
a) <mark>Pig</mark>	b)) Horse	c) Fow	1		
40. Sublingua	fold is pr	esent in				
a) She	ep b)) Pig	c) <mark>Hor</mark>	se		
41. Ductus inc	isivus is t	he duct of				
a) Paro	otid b)) Mandibu	lar	c) Nasopalat	ine	
42. Fold of mu	ıcus meml	brane pass	ing from	Upper jaw to 1	Lower ja	w is called
a) <mark>Plic</mark>	a Pterygor	<mark>nandibula</mark>	<mark>ris</mark>	b) Franum li	nguae	c) Franum labii
43. Well mark	ed Torus l	linguae is	present in			
a) Hor	se b)	Ox	c) Dog			
44. Identify th	e Gustatoi	ry papilla				
a) Filli	form b) Lenticula	ır	c) Vallate		
46. Fold of mu	icus meml	brane pass	ing from	root of the ton	igue to th	ne base of Epiglottis is
a) Hyd	-epiglottic	c fold b)	Glosso-ep	iglottic fold	c) Plica p	oterygomandibularis
47. Find out th	ie correct	answer: (N	Match the	following:)		
i) Stenso	n's duct		-A) Na	sopalatine gla	and	
ii) Ductu	s incisivus		-B) Pa	rotid salivary	gland	
iii) Sulcus	linguae		-C) Ca	nine teeth		
` iv) Fangs			-D) Do	og		
v) Barb			-E) Ma	axillary gland		
a) i-B, ii-A,	iii-C,	iv-D,	v-E			
b) i-A, ii-B,	iii-D,	iv-C,	v-E			
c) i-B, ii-A,	iii-D,	iv-C,	<mark>v-E</mark>			
48. Lyssa is th	e characte	eristic featu	are in the	tongue of		
a) Ox	b)) Goat	c) Dog			

	ic following is i	named as Wolf t	loour?
a) 1 st Molar	b) 1 ^s	^t Canine	c) <mark>1st Premolar</mark>
51. Hardest tissue in	n the body is		
a) <mark>Enamel</mark>	b) Bone	c) Dentine	
52. Substances that	form the tooth	from within out	ward are
a) <mark>Pulp, Den</mark>	tine, Cement, I	Enamel Programme	
b) Pulp, Ena	mel, Dentine, O	Cement	
c) Pulp, Ena	mel, Cement, I	Dentine	
53. Identify the Isog	gnathus animal		
a) Dog	b) Pig	c) Ox	
54. Identify the Ani	sognathus anin	nal	
a) Ox	b) Horse	c) Dog	
55. Infundibulum is	filled up with		
a) Enamel	b) Cement	c) Pulp	
56. Largest salivary	gland in Horse		
a) Mandibul		laxillary	c) Parotid
a) Mandibul 57. Infraorbital saliv	ar b) M	laxillary	c) Parotid
	ar b) M	laxillary	c) Parotid
57. Infraorbital saliv	ar b) Movary gland is prob) Sheep	Taxillary resent in c) Rabbit	c) Parotid
57. Infraorbital saliv	ar b) Movary gland is prob) Sheep	Taxillary resent in c) Rabbit	
57. Infraorbital salivaa) Dog58. Largest salivarya) Parotid	ar b) Movary gland is prob) Sheep gland of Ox is b) Sublingua	Taxillary resent in c) Rabbit al c) Submax	
57. Infraorbital salivaa) Dog58. Largest salivarya) Parotid	ar b) Movary gland is prob) Sheep gland of Ox is b) Sublingua	Taxillary resent in c) Rabbit al c) Submax	tillary
57. Infraorbital salivaa) Dog58. Largest salivarya) Parotid59. Musculo-membro	ar b) Movary gland is prob) Sheep gland of Ox is b) Sublinguation passage b) Pharynx	faxillary resent in c) Rabbit al c) Submax common to bot c) Larynx	cillary h digestive and respiratory systems
 57. Infraorbital saliva a) Dog 58. Largest salivary a) Parotid 59. Musculo-member a) Mouth 	ar b) Movary gland is prob) Sheep gland of Ox is b) Sublinguation passage b) Pharynx	faxillary resent in c) Rabbit al c) Submax common to bot c) Larynx	cillary h digestive and respiratory systems
 57. Infraorbital salival a) Dog 58. Largest salivary a) Parotid 59. Musculo-member a) Mouth 60. Cavity of phary A) 7 	ar b) Movary gland is problem b) Sheep gland of Ox is b) Sublinguation by Sublinguation passage b) Pharynx nx has	resent in c) Rabbit al c) Submax common to bot c) Larynx number of open c) 4	cillary h digestive and respiratory systems
 57. Infraorbital salival a) Dog 58. Largest salivary a) Parotid 59. Musculo-member a) Mouth 60. Cavity of phary A) 7 	ar b) Movary gland is prob) Sheep gland of Ox is b) Sublinguation passage b) Pharynx nx has	resent in c) Rabbit al c) Submax common to bot c) Larynx number of open c) 4	cillary h digestive and respiratory systems ings
 57. Infraorbital salival a) Dog 58. Largest salivary a) Parotid 59. Musculo-member a) Mouth 60. Cavity of pharys A) 7 61openings 	ar b) Movary gland is problem b) Sheep gland of Ox is b) Sublinguation passage b) Pharynx nx has	resent in c) Rabbit al c) Submax common to bot c) Larynx number of open c) 4 the dorso anteriosterior nares	cillary th digestive and respiratory systems ings for part of the pharynx c) Auditus laryngis
 57. Infraorbital salival a) Dog 58. Largest salivary a) Parotid 59. Musculo-member a) Mouth 60. Cavity of pharys A) 7 61openings a) Eustachia 	ar b) Movary gland is problem b) Sheep gland of Ox is b) Sublinguation and passage b) Pharynx nx has	resent in c) Rabbit al c) Submax common to bot c) Larynx number of open c) 4 the dorso anteriosterior nares the tympanic cavi	cillary th digestive and respiratory systems ings for part of the pharynx c) Auditus laryngis
 57. Infraorbital salival a) Dog 58. Largest salivary a) Parotid 59. Musculo-members a) Mouth 60. Cavity of pharys A) 7 61openings a) Eustachia 62. Pharynx communications 	ar b) Movary gland is prob) Sheep gland of Ox is b) Sublinguation passage b) Pharynx nx has	resent in c) Rabbit al c) Submax common to bot c) Larynx number of open c) 4 the dorso anteriosterior nares the tympanic cavit sustachian tube	cillary th digestive and respiratory systems ings for part of the pharynx c) Auditus laryngis ty through

64. Ventral diverticulum of	Eustachian tube in equ	idae family
a) <mark>Gutturhal pouch</mark>	b) Pharyngeal divertie	culum
65. At the level of 3 rd thoraci	ic vertebra the Oesopha	agus is situated on the
face of trachea		
a) Dorsal b) Lat	eral c) Ventral	
66. Atrium ventriculi is situa	ated on the	
a) Reticular wall	b) Reticulo-omasal w	all c) Rumino-reticular wall
67. In the neck region Oesop	hagus is related dorsal	ly to a straight muscle called
a) Rectus capitis dors	salis b) <mark>Longus col</mark>	i c) Intertransversales coli
68. Line of demarcation betw	ween thoracic and abdo	minal cavity is
a) Diaphragm	b) Pelvic inlet	c) Tuber sacrale
69. In adult, the abdominal c	avity is pierced by	openings
a) 3 b) <mark>5</mark>	c) 6	
70. Diaphragm has	number of opening	SS
a) 2 b) 4	c) <mark>3</mark>	
71. In male, Inguinal canal is	s for the passage of	
a) Spermatic cord	b) External pudic ves	sel c) Mammary artery and vein
72. Serous membrane lining	the abdominal cavity is	S
a) Pleura b) Par	ietal peritoneum	c) Visceral peritoneum
73. Double fold of peritoneu	m extends from stomac	ch to other viscera is
a) Omentum	b) Mesentery	c) Ligament
74. Double fold of peritoneu	um attaches intestine to	the dorsal body wall is
a) Ligament	b) Mesentery	c) Omentum
75. Double fold of peritoneu	m attaches viscera othe	er than parts of the digestive tube to
the abdominal wall is		
a) <mark>Ligament</mark>	b) Omentum	c) Mesentery
76 Which one of the following	ng does not transmit bl	ood vessels and nerves?
a) Omentum	b) Mesentery	c) Ligament
77. Largest of the three body	cavities	
a) Thoracic	b) Abdominal	c) Pelvic

78. Smallest o	of the th	ree bod	y cavitie	es is		
a) Tho	racic		b) Pelv	<mark>vic</mark>	c) Abdominal	
80. Abdomina	ıl cavity	y is sepa	rated fr	om the thoracic	cavity by	
a) <mark>Dia</mark> j	<mark>phragm</mark>	l	b) Pelv	vic inlet	c) Ribs and in	tercostals muscles
81. Identify th	e corre	ct answ	er:			
a) Pelv	ic cavi	ty is dev	oid of p	peritoneal lining	g	
b) Ant	erior pa	art of the	e pelvic	cavity is retrop	eritoneal	
c) Post	terior p	<mark>art of th</mark>	<mark>e pelvic</mark>	cavity is retrop	peritoneal	
82. Greater an	d lesse:	r peritor	neal sac	communicates	with each othe	r through
a) <mark>For</mark> a	amen of	<mark>f winslo</mark>	w	b) Foramen ce	ecum c) Fora	amen dextrum
83. Double fo	ld of pe	eritoneur	n exten	ding from the v	visceral face of	liver to the stomach is
called						
a) Sup	erficial	omentu	m	b) Lesser ome	<mark>ntum</mark>	c) Greater omentum
84. In male, g	enital fo	old cont	ains			
a) Urir	ary bla	ıdder	b) Epic	didymis and Va	asdeferens	
c) Vas	<mark>deferen</mark>	is and S	<mark>eminal y</mark>	vesicles		
85. The Falcif	orm lig	gament o	of liver o	contains in its fr	ree edge	
a) Um	bilical a	artery	b) Um	<mark>bilical vein</mark>	c) Hepatic vei	n
86. Largest co	mpartn	nent of t	he Rum	ninant stomach	is	
a) Om	asum		b) Run	<mark>nen</mark>	c) Abomasum	ı
87. Smallest c	ompart	ment of	the Rui	minant stomach	n is	
a) Reti	culum		b) Om	asum	c) Abomasum	l.
91. Match the	follow	ing:				
i) Ru	men			-a) Honey con	nb appearance	
ii) On	nasum			-b) True stoma	ach	
iii) Re	ticulum	1		-c) Paunch		
iv) Ab	omasur	n		-d) Many plie		
Identify the co	orrect a	nswer				
a) i-a,	ii-d,	iii-c,	iv-b			
b) <mark>i-c,</mark>	ii-d,	iii-a,	iv-b			
0); 4	ii 0	iii h	iv			

92. Identify the correct answ	ver	
a) Rumen and Reticu	lum are on the left side	2
b) Rumen and Omass	um are on the right side	2
c) Rumen and Abom	asum are on the left sic	le
93. Identify the correct states	ment:	
a) Pelvic outlet is sm	aller than inlet	
b) Pelvic inlet is sma	ller than outlet	
c) Pelvic outlet is equ	al to inlet	
94. The position of Rumen is	n Ox is from the	
a) Lower part of 7 th /	8 th intercostal space to	Pelvic inlet
b) Lower part of 4 th /	5 th intercostal space to	Pelvic inlet
c) Lower part of 7 th /	8 th intercostal space to	Pelvic outlet
95. Ruminant stomach is div	ided into compartment	es exteriorly by
a) Pillars b) <mark>Gro</mark>	oves c) Muscular r	idges
96. The extremity of Rumen	is divided into dorsal a	and ventral by means of
a) Right longitudinal	groove b) Left longitude	udinal groove c) Coronary groove
97. The most anterior compa	rtment of the ruminant	stomach is
a) Rumen	b) Omasum	c) Reticulum
98. Reticulum is situated on	the left side which exte	ends from
a) 8-10 th rib	b) <mark>6-8th rib</mark>	c) 7-9 th rib
100. Omasum is situated on	the right side which ex	tends form
a) 8-10 th rib	b) 6-8 th rib	c) <mark>7-11th rib</mark>
101. Fundus reticuli lies opp	osite to the	
a) 6 th rib	b) 6 th intercostal space	ec) 8 th intercostal space
102. Anterior extremity of th	e abomasums is at the	level of
a) 8 th rib	b) 6 th rib	c) Xiphoid cartilage
103. Pyloric part of the abon	nasums is at the level o	of ventral part of
a) 9 th rib	b) 11 th rib	c) 10^{th} rib
	,	, <u> </u>
104. Interiorly rumen is divide	ded into compartments	by

105. In Ox, Cardia is at the level of
a) 11 th rib b) 13 th rib c) 8 or 9 th rib
106. Oesophageal groove extends from the
a) Cardia to Rumino-reticular opening
b) Cardia to Reticulo-omasal opening
c) Cardia to Omaso-abomasal opening
107. Sulcus omasi extends from the
a) Reticulo-omasal opening to the Omaso-abomasal opening
b) Rumino-reticular opening to the Omaso-abomasal opening
c) Rumino-reticular opening to the Omaso-abomasal opening
108. Mucous membrane of the abomasum shows folds in the
a) Glandular part only b) Non-glandular part only
c) Throughout the abomasums
109. Rounded cut-de-sac at the left dorsal extremity of the horse stomach is
a) Saccus caecus b) Fundus c) Diverticulum ventriculi
110. Glandular and non-glandular parts of the Horse stomach is separated by
a) Margoplicatus b) Terminal line c) Oesophageal groove
111. Which one of the following is not a simple stomach animal?
a) Horse b) Pig c) Goat
112. A conical blind pouch in the left extremity of Pig stomach is
a) Saccus caecus b) Diverticulum ventriculi c) Insula ruminis
113. Torus pyloricus is present in the stomach of
a) Horse b) Dog c) Pig
114. Identify the correct statement of the two compartments of the Fowl stomach
a) Proventriculus is glandular and Gizzard is non-glandular
b) Proventriculus is non-glandular
c) Gizzard is glandular
115. Fixed part of the small intestine is
a) Jejunum b) Ileum c) <mark>Duodenum</mark>
116. Mesenteric part of the small intestine includes
a) Duodenum and Jejunum b) Jejunum and Ileum c) Ileum and Duodenum

117. In Ox, pylorus is at the ventral end of the
a) 10 th rib b) 12 th rib c) 13 th rib
118. In Rabbit, the terminal part of the Iileum shows a dilatation called
a) Saccus caecus b) Sacullus rotundus c) Torus pyloricus
119. Bile duct and Pancreatic ducts are double in
a) Ox b) Dog c) Fowl
120. In Ox, which part of the large intestine is in the form of a cul-de-sac?
a) Caecum b) Colon c) Rectum
121. Straight portion of the Large intestine within in the Pelvic cavity is
a) Caecum b) Colon c) Rectum
122. In Cow immediately ventral to rectum it is related to
a) Urinary bladder b) Seminal vesicle c) Uterus
123. Terminal point of the alimentary canal is
a) Rectum b) Anus c) Colon
124. Peyer's patches are present in the mucous membrane of
a) Caecum b) Duodenum c) Ileum
125. Muscle which controls the prolapse of the anus during defecation
a) Sphincter ani b) Suspensory ligament of anus c) Retractor and
127. Which one of the following species has a functional Caecum?
a) Rabbit and Horse b) Dog and Cat c) Cattle and Sheep
128. Identify the foregut digester
a) Ox b) Horse c) Rabbit
129. Identify the hind gut digestor
a) Horse b) Cattle c) Goat
130. In Horse caecum is situated on the
a) Left side b) Right side c) Median
131. Which one of the following is the first part of colon in Horse?
a) Right ventral b) Right dorsal c) Left ventral
132. Which part of the intestine is arranged in centripetal and centrifugal coils?
a) Jejunum b) Ileum c) Colon

133. Identify the correct order of flextures formed by the greater colon form before
backward
a) Sternal flexure, Pelvic flexure, Diaphragmatic flexure
b) Diaphragmatic flexure, Pelvic flexure, Sternal flexure
c) Pelvic flexure, Diaphragmatic flexure, Sternal flexure
134. Taenia caeci and Taenia colii are present in
a) Ox and Horse b) Horse and Dog c) Horse and pig
135. Number of Taeniae present on the ventral part of the greater colon is
a) 3 b) 4 c) 2
136. Number of Taeniae present on the small colon is
a) 4 b) 3 c) 2
137. Haustra are present in thepart of intestine
a) Colon b) Duodenum c) Caecum
138. In horse, on rectal palpation which one can be palpated?
a) Sternal flexure b) Pelvic flexure c) Diaphragmatic flexure
139. Which one of the following has the smallest diameter?
a) Diaphragmatic flexure b) Sternal flexure c) Pelvic flexure
140. Area of right ruminal wall between the dorsal and ventral branches of right
longitudinal pillar is called
a) Recess of rumen b) Saccus calcus c) Insula ruminis
141. Franulum ilei is present in
a) Horse b) Fog c) Pig
142. Sacculations present in the colon of horse and pig are called
a) Haustra b) Talnia c) Muscular bands
143. Caeca is double in
a) Horse b) Pig c) Fowl
144. The most caudal segment of the Cloaca is
a) Urodeum b) Proctodeum c) Coprodeum
145. Cloacal bursa is situated on the dorsal wall of the
a) Proctodeum b) Coprodeum c) Urodeum
146. Horizontal slit like opening of the proctodeum

a) Anus b) <mark>Vent</mark> c) Cloaca
147. Which one of the following animal has vermiform appendix?
a) Ox b) Horse c) Rabbit
148. Largest gland in the body of mammals
a) Mammary gland b) <mark>Liver</mark> c) Kidney
149. Position of liver in Ox
a) From lumbo-costal angle to the 8 th rib on right side
b) From lumbo-costal angle to the 8 th rib on left side
c) From lumbo-costal angle to the 6 th rib on left side
150. In Horse liver is situated on the
a) Right side b) Left side c) From right to left
151. Right kidney is attached to the liver on its
a) Anterior border b) Dorsal border c) Medial border
152. Right kidney is attached to the caudate lobe of the liver by
a) Right lateral ligament b) Caudate ligament c) Falciform ligament
153. Falciform ligament extends from the
a) Right border to left border
b) Umbilical fissure to Oesophageal notch
c) Right border to Oesophageal notch
154. Which one of the following is embedded with in the liver?
a) Anterior vena cava b) Celiac vein c) Posterior vena cava
155. In Ox, gall bladder is in contact with the abdominal wall at the level of
a) 10th / 11 th intercostal space b) 13 th rib c) 7 th / 8 th intercostal space
156. Ductus choledocus is formed by the union of
a) Cystic and Hepatic ducts
b) Hepatic and Pancreatic ducts
c) Cystic and Pancreatic ducts
157. Number of lobes present in the liver of Horse is
a) 2 b) 3 c) 5
158. In Ox, the free border of the Falciform ligament carries the
a) Round ligament b) Caudate ligament c) Right lateral ligament

159. Gall bladder is absent in									
	a) Ox		b) Pig		c) Horse				
160. In	160. In Pig, the bile duct opens at the								
	a) Diverticulum duodeni b) Papilla duodeni c) Torus pyloricus								
161. Th	ne orde	r of lob	es of liv	er in d	og from righ	t to left	are		
	a) <mark>Rigl</mark>	<mark>nt latera</mark>	ıl, Right	centra	l, Caudate, L	eft cent	ral and Left lateral		
	b) Rigl	nt latera	ıl, Caud	ate, Ri	ght central, L	eft cent	ral and Left lateral		
	c) Righ	nt latera	ıl, Right	centra	l, Left centra	ıl, Cauda	ate and Left lateral		
162. La	rgest l	obe of t	he dog l	iver is					
	a) Righ	nt latera	ıl	b) Lef	t lateral	c) C	audate		
163. In	dog liv	er, gall	bladdeı	is lod	ged in the				
	a) Righ	nt latera	ıl		b) Right ce	<mark>ntral</mark>	c) Caudate		
164. Nı	umber (of lobes	in the r	abbit l	iver are				
	a) 6		b) 4		c) <mark>5</mark>				
165. W	hich or	ne of the	e follow	ing is	otherwise kn	own as a	abdominal salivary gland?		
	a) Live	er	b) Sple	en	c) Pancreas	3			
166. La	rgest l	ymphoi	d organ	in the	body				
	a) Live	er	b) Adro	enal	c) <mark>Spleen</mark>				
167. M	atch the	e follov	ving:						
		A					В		
i) Sple	een-Ox					-a) l	Falciform/Human foot print		
ii) Sple	een –H	orse				-b) l	Elliptical		
iii) Splo	een-Sh	eep				-c) S	Spatula shaped		
iv) Spleen-Rabbit -d) Scythe shaped						Scythe shaped			
v) Sple	v) Spleen-Dog -e) Oyster-shell shaped								
Identify	Identify the correct answer								
a) i-e,	ii-d,	iii-b,	iv-c,	v-a					
b) <mark>i-b,</mark>	ii-d,	iii-e,	iv-c,	v-a					
c) i_a	ii-h	iii_e	iv-d	V-C					

1. Nasal cavity is separated from the oral cavity by means of								
a) <mark>Hard palate</mark>				Soft palate	c) Nasal septum			
6. Matc	6. Match the following:							
	A				В			
i) Post	erior na	ares			-a) Organ of Jacobson			
ii) Von	nero-na	sal orga	ın		-b) Snout-pig			
iii) Duc	tus inci	sivus			-c) Choanae			
iv) Pseu	ıdonost	ril			-d) Nasopalatine duct			
v) Osro	stri				-e) Horse			
Identify	the con	rrect an	swer					
a) i-a,	ii-d,	iii-b,	iv-c					
b) i-a,	ii-b,	iii-c,	iv-d					
c) i-c,	ii-a,	iii-d,	iv-b					
7. Com	ma shap	ped nos	trils are pr	esent in				
	a) Ox		b) Horse	c) Dog	3			
8. In Pi	g, burro	wing (o	or) rooting	habit is fac	ilitated by			
	a) Dent	al pad	b)	Rostrum	c) Tusk			
9. Horn	y skin c	covering	g the dorsa	al border of	the nostrils in Fowl is called as			
	a) Watt	le	b) <mark>Opercu</mark>	<mark>lum</mark>	c) Syrinx			
10. Val	vular ap	paratus	of the res	piratory sys	stem is			
	a) Nose	:	b) Pharyn	X	c) Larynx			
11. Wh	ich one	of the I	Laryngeal	cartilage is	paired?			
	a) Crico	oid	b) <mark>Aryten</mark>	<mark>oid</mark>	c) Thyroid			
13. Lar	yngeal p	oromine	ence is pre	sent on the	ventral aspect of			
	a) Crico	oid	b) Aryte	enoid c	Thyroid cartilage			
15. Joir	15. Joints formed by the cartilages of the larynx in Ox are							
a) Syndesmoses b) Diarthrodial c) Amphiarthrodial								
16. Portion of larynx between the vocal folds is named as								
	a) <mark>Rima</mark>	aglottidi	b)	Vestibule	c) Laryngeal saccule			

17. Joints formed by the	cartilages of	the larynx in H	Iorse are	
a) Syndesmoses	b) Amp	phiarthrodial	c) <mark>Diar</mark>	<mark>throdial</mark>
18. Thyroid cartilage of	larynx is inco	omplete ventral	ly in	
a) Ox b)) Dog	c) Horse		
19. False vocal cords are	e absent in			
a) Ox b)) Dog	c) Pig		
20. Organ of voice in Fo	owl is			
a) Larynx b)) <mark>Syrinx</mark>	c) Carina		
21. In birds, homologou	s part of the	vocal folds are		
a) Carina b)	Tympanifor	<mark>m membrane</mark>	c) Cricoid	
22. Organ of voice in ele	ephant is			
a) Larynx b)) <mark>Trunk</mark>	c) Syrin	nx	
23. In the cervical region	n trachea is d	orsally related	to	
a) <mark>Oesophagus</mark>	b) Caro	otid artery	c) Vagosympa	thetic nerve
24. Tracheal bifurcation	takes place a	at the level of		
a) 5^{th} rib b)	3 rd rib	c) 6 th rib		
25. Apical bronchus aris	ses at the leve	el of		
a) 3 rd rib b)) 5 th rib	c) 6 th rib		
27. Bronchus is related t	to the			
a) Bronchial artery above	e and Pulmo	<mark>nary artery belo</mark>	<mark>)W</mark>	
b) Pulmonary artery abo	ove and Brono	chial artery belo	OW	
c) Bronchial and Pulmon	nary artery al	pove		
28. In which one of the	following Ap	ical bronchus i	s absent?	
a) Dog b)) Ox	c) Horse		
29. Posterior wall of the	thoracic cav	ity is formed by	/	
a) Sternum b)) <mark>Diaphragm</mark>	c) Inter	costal muscles	
30. Pleura covering the	lung is named	d as		
a) Costal pleura	b) Diap	ohragmatic pleu	ıra c) <mark>Puln</mark>	nonary pleura
31. Plica vena cava encl	oses			
a) <mark>Posterior vena</mark>	<mark>icava</mark>	b) Anterior ver	nacava	c) Left phrenic nerve

33. Proportion of lung	g lobes in righ	it to left lung is	
a) 3:3	b) 3:4	c) 4:3	
34. Accessory lobe is	present in		
a) Right lung	only b) Le	eft lung only	c) Both right and left lungs
35. Largest lobe of th	e Ox lung is		
a) Apical	b) Cardiac	c) <mark>Diaphragr</mark>	natic
36. Lobation is absen	t in the lungs	of	
a) Horse and	dog b) Ox	x and Horse	c) Sheep and Pig
37. Diaphragm is abs	ent in		
a) Dog	b) Sheep	c) Birds	
38. Air sacs are the u	nique feature	in the respirator	ry system of
a) Dog	b) Sheep	c) Birds	
39. Number of air sac	es in the respir	ratory system o	f Fowl are
a) 13 pairs	b) 10 pairs	c) 11 pairs	
40. Which one of the	following air	sac is not paire	ed?
a) Cervical	b) Axillary	c) Cl	<mark>avicular</mark>
41. In Dog Thyroid g			
a) Larynx to 7			
b) Larynx to 5	5 th tracheal rin	g	
c) Larynx to 2	2 nd tracheal rin	ıg	
42. In sheep and Goa	at thyroid glan	d extends upto	the lateral sides of
a) 2 nd tracheal	l ring b) 7 th	tracheal ring	c) 5 th tracheal ring
43. Number of Parath	nyroid glands	in Ox is	
a) <mark>2 pairs</mark>	b) 2 pairs	c) 3 pairs	
1. Surface of the Kids	ney is lobulate	ed in	
a) Horse	b) Ox	c) Dog	
2. In which of the fol	lowing organ	right kidney is	attached
a) <mark>Liver</mark>	b) Spleen	c) Stomach	
3. Apex of the Renal	pyramid is kn	own as	
a) Area cribro	osa b) <mark>Re</mark>	<mark>enal papilla</mark>	c) Calyx major

4. Match the following:

Α

- i) Renal crest
- ii) Heart of playing card
- iii) Ruminal surface
- iv) Cicatrix

Identify the correct answer

- a) i-d ii-c iii-b iv-a
- b) i-d ii-a iii-b iv-c
- iv-d c) i-c ii-a iii-b
- 5. Trigonum vesicae shows the openings of
 - a) 2 Ureteral openings anteriorly and internal urethral orifice posteriorly
 - b) 2 Ureteral openings posteriorly and internal urethral orifice anteriorly
 - c) 2 Ureteral openings alone
- 6. After birth, Umbilical artery is transformed into
 - a) Lateral ligament of bladder b) Broad ligament c) Round ligament of bladder
- 1. In Bull, scrotum is situated
- a) Infront of the inguinal region
 - b) In the inguinal region
- c) Subanal in position
- 2. Match the following:

- i) Intercolumnar fascia
- ii) Cremasteric fascia
- iii) Infundibuliform fascia
- iv) Tunica vaginalis

Identify the correct answer:

- a) i-c ii-a iii-d iv-b
- b) i-c ii-a iii-d iv-b
- c) i-b ii-a iii-d iv-c

В

- -a) Right kidney of horse
- -b) Left kidney of Ox
- -c) Vestige of Urachus
- -d) Kidney Horse

В

- -a) Internal oblique muscle
- -b) Parietal peritoneum
- -c) External oblique muscle
- -d) Transverse abdominis

3. In Stallion, rudimentary teats are situated
a) Behind the scrotum b) Infront of the scrotum c) At the preputial orifice
4. Testicles are intraabdominal in position in
a) Ox and Elephant b) Stallion and Donkey c) Fowl and Elephant
5. In Bull, relationship between the long axis of the testis and the long axis of the body is
a) Horizontal b) <mark>Vertical</mark> c) Parallel
6. Position of epididymal border in Bull is
a) Anterior b) Posterior c) Dorsal
8. Which one of the following is not included in the Spermatic cord?
a) Spermatic artery b) Vas deferens c) Epididymis
9. Testicles are globular in shape in
a) Bull b) Pig c) Stallion
10. In Stallion, relationship between the long axis of the testes and the long axis of the
body is nearly
a) Vertical b) Parallel c) Horizontal
11. In the testis of Dog, epididymis is attached on its
a) Anterior border b) Ventral border c) Dorsal border
12. In Pig, tail of the epididymis is attached to the testis on its
a) Anterior end b) Posterior end c) Dorsal
13. Pampiniform plexus is made up of
a) Internal spermatic artery b) Internal spermatic nerve
c) Internal spermatic vein
14. During foetal life, testes are attached to the sublumbar region by
a) Mesorchium b) Mesentery c) Peritoneum
15. During testicular descent, the testes are guided by
a) Ligamentum epididymis b) Gubernaculum testis
c) Scrotal ligament
16. After birth, Gubernaculum testis is transformed into
a) Dartos b) Tunica vaginalis c) Tunica albuginea
17. In Pig, descent of testis is complete
a) 3 months after hirth b) At the time of hirth c) Shortly before hirth

18. In which one of the following species, vas deferens is non-tortuous?					
a) Rabbit b) Dog c) Horse					
20. Uterus masculinus is an fetal remnant of					
a) Wolfian duct b) Multerian duct c) Paramesonephric tubules					
21. Utriculus prostaticus in male is the homologus part of					
a) Uterus b) Ovary c) Uterus and vagina					
22. Which one of the following is not an accessory sex gland?					
a) Seminal vesicle b) Cowpers gland c) Palatine gland					
23. The only accessory sex gland in Dog is					
a) Seminal vesicle b) Prostate c) Cowpers gland					
24. Accessory sex gland lies on the neck of the urinary bladder					
a) Cowpers gland b) Prostate c) Seminal vesicle					
25. Sex gland situated at the Ischial arch is					
a) Seminal vesicle b) Prostate c) Bulbo-urethral gland					
26. In Bull, cowpers gland is surrounded by					
a) Bulbocavernosus muscle b) Urethralis muscle c) Bulbo spongiosus muscle					
27. Rounded prominence situated on the dorsal wall of the urethra is					
a) Processus urethral b) Colliculus seminalis c) Urethral crest					
29. In which of the following species the terminal part of urethra extends beyond the					
glans penis as processus urethrae?					
a) Bull b) Stallion c) Sheep					
30. Fibrous type of penis is present in					
a) Bull b) Stallion c) Donkey					
31. In boar the volume of semen is mainly contributed by the secretion of					
a) Seminal vesicle b) Prostate c) Cowpers					
32. Largest accessory sex gland in Dog					
a) Prostate b) Seminal vesicle c) Cowpers					
33. Penis of stallion is oftype					
a) Fibrous b) Cavernous c) Intermediate					
34. Free margin of the glans penis in Stallion is named as					
a) Fossa glandis b) Collum glandis c) Corona glandis					

35. In Stallion, smegma is ac	35. In Stallion, smegma is accumulated in							
a) Fossa glandis	b) Corona glandis	c) Urethral sinus						
36. Sigmoid flexure is formed in the								
a) Body of penis	b) Root of penis	c) Glans penis						
37. Sigmoid flexure is the cha	aracteristic feature in	the penis of						
a) Dog and Cat	b) Cattle and Horse	c) Cattle and Pig						
38. Match the following:								
A		В						
i) Pars libera	-a) B	ull						
ii) Preputial diverticulum	-b) P	ig						
iii) Pre scrotal sigmoid flexur	re -c) S	tallion						
iv) Post scrotal sigmoid flexu	re -d) R	abbit						
Identify the correct answer:								
a <mark>) i-d ii-c iii-b iv-a</mark>								
b) i-d ii-b iii-c iv-a								
c) i-d ii-c iii-a iv-b								
39. Position of the ovaries in	domestic animals							
a) Inside the pelvic ca	wity b) Intra abdo	ominal c) Brim of the pelvic cavity						
40. Ovulatory fossa is presen	t on the surface of th	e ovary of						
a) Cow b) <mark>Mar</mark>	c) Sow							
41. Ovarian bursa is present i	in the ovary of							
a) Bitch b) Rabbit	c) Sow							
42. Opening of the infundibu	lum is covered by nu	merous						
a) Cilia b) <mark>Fim</mark>	<mark>briae</mark> c) Muscular	folds						
43. Identify the order of sequence of different segments of the birds oviduct								
a) Infundibulum, Magnum, Isthmus, Uterus and Vagina								
b) Infundibulum, Isth	mus, Magnum, Uteru	s and Vagina						
c) Infundibulum, Uterus, Isthmus, Magnum and Vagina								
44. Longest segment in the o	viduct of Hen							
a) Uterus b) Mag	gnum c) Isthmus							

45. Shell of an egg is secreted in which part of the	oviduct in Fowl
a) Magnum b) Infundibulum c) <mark>Ute</mark>	<mark>rus</mark>
46. Oviposition takes place inpart of the ov	viduct of Hen
a) Uterus b) Magnum c) <mark>Vagina</mark>	
47. Sperm host glands are present at the junction of	f
a) Uterus and Vagina b) Uterus and Magr	num c) Magnum and Isthmus
48. Uterus is attached to the lateral body wall by	
a) Sacrosciatic ligament b) Broad ligar	ment c) Sacroiliac ligament
50. Fallopian tube opens into the horn of the uterus	through
a) Ostium uterinum tubae b) External os	s c) Internal os
51. Oval prominences of the mucous membrane lin	ing the uterus are called
a) Caruncles b) Cotyledons	c) Placentomes
52. Identify the correct statement	
a) Mucous membrane of the cervix has Serous glan	nds
b) Mucous membrane of the cervix has Mucous gla	ands
c) Mucous membrane of the cervix has no glands	
53. Cotyledons are absent in the Mucous membrane	e of the uterus of
a) Cow b) Sheep c) Mare	
55. Glans clitoridis is more prominent in	
a) Mare b) Cow c) Sheep	
56. Base of the mammary gland is attached to the a	bdominal wall by means of
a) Stay apparatus b) Suspensory appara	c) Prepubic tendon
57. Which one of the following is a paired muscle?	
a) Urethralis b) Bulbospongiosus	c) Ischiocavernosus
58. Match the following:	
i) Helicine arteries	-a) Penis-Dog
ii) Ospenis	-b) Horse
iii) Musculocavernous penis	-c) Erection
iv) Vagina simplex and Uterus duplex	-d) Marsupials
v) Vagina and Uterus duplex	-e) Rabbit
Identify the correct answer	

- a) i-c ii-d iii-a iv-b v-e
- b) i-c ii-a iii-b iv-e iv-d
- c) i-e ii-a iii-d iv-c iv-b
- 59. Uterus bicornis is present in

 - a) Rabbit b) Marsupials
- c) Domestic animals
- 60. Pelvic outlet is larger than the Pelvic inlet in
 - a) Cow
- b) Mare
- c) Bitch
- 61. Serous membrane covering the uterus is
 - a) Perimetrium
- b) Endometrium
- c) Myometrium
- 62. Cryptorchidism is more common in
 - a) Pigs
- b) Sheep
- b) Cattle
- 63. Uterus masculinus is an embryological remnant of
 - a) Mesonephric ducts
- b) Wolffianduct
- c) Paramesonephric ducts
- 66. Part of ruminant stomach involved in Traumatic gastritis is
 - a) Rumen
- b) Reticulum
- c) Omasum

VETERINARY BIOCHEMISTRY

1.	The end produc	t of purine metabo	olism in cattle is		
	a) Urea	b) Uric acid	c) Allantoin	d) Ammonia	
2.	Which one of the following is a purely Ketogenic amino acid?				
	a) Leucine	b) Glycine	c) Valine	d) Glutamic acid	
3.	Guanase enzym	e activity is defici	ent in the liver of		
	a) Pigs	b) Dogs	c) Cats	d) Cattle	
4.	The source of N	N_1 of pyrimdine rin	ng is		
	a) Glycine	b) Glutamine	c) Aspartate	d) N ¹⁰ methylene	
	TH4				
5.	Liver cannot ut	ilize ketone bodies	s because it lacks the er	nzyme	
	a) Thiokinase	b) β- keto thiol	ase c) Thiophorase	d) Thioesterase	
6.	Which one of the	ne following amino	o acid does not undergo	transamination reaction?	
	a) Glycine	b) Lysine	c) Alanine	d) Aspartate	
7	HhA1C measi	rements indicate a	average B. glucose leve	ols over the preceding	
<i>,</i> .	a) 2 days	b) 2 weeks	c) 2 months	d) 2 years	
	a) 2 days	b) 2 weeks	c) 2 months	d) 2 years	
8.V	Which among the	following is a hyp	poglycemic hormone?		
	a) Glucagon	b) Cortisol	c) Nor Adrenalin	e d) Insulin	
9.	Hypercholester	olemia is a comm	on feature in		
	a) Hyperthyroid	lismb) Hypothyroi	dism c) Hyperinsu	llinism d) Gout	
10.	Hypogammaglo	obulinemia in calve	es is detected by	test.	
	a)GTT b	b) BCG method	c) Rothera's d) G	lutaraldehyde coagulation	
11.	The enzyme inv	volved in m-RNA	synthesis in Eukaryote	es is	
	a) RNA pol I	b) RNA pol II	c) RNA pol III	d) DNA pol III	
12.	Glucuronic acid	l conjugation is lin	nited in		
	a) Cats	b) Dogs	c) Pigs	d) Horses	
13.	Induced fit mod	lel was given by			
	a) Michaelis-M	enten b) Sutherla	and c) D. Koshland	d) Fischer	

14. One I.U eq	quals to			
a) 16.67 nn	noles b) 16.67	nkatal c) 1.667	nmoles	d) 1.667 nkatal
15. Xanthine o	xidase requires	as co-facto	r	
a) Mo 2+	b) Mg2+		c) Zn 2+	d) Ca 2+
16. The optimu	ım pH for pepsin is			
a) 1.5	b) 6.0	c) 7 .4	ļ	d) 8.4
17. The optimu	ım temperature for m	ost of the mammal	ian enzymes	s is
a) 60°c	b) 42°c	c) 37°	c	d) 25 °c
18. Attachmen	t of a purine base to r	ibose sugar occurs	via ato	om.
a) N-1	b) C- 3	c) N- 9	d)	C- 9
19. Absorbance	e maxima of Nucleic	acids is mainly con	ntributed by	-
a) Sugar	b) Phospha	ates c) Ba	ises	d) Hydroxyl
groups				
20. The Number	er of base pairs per tu	rn of helix in 'A'fo	orm of DNA	is –
a) 10	b) 10.5	c) 11	d)	12
21. Which of t	he following RNA ha	as a relatively shor	t half life?	
a) r- RNA	b) m-RNA	c) t-RNA	d) Mic	ro RNAs
22. The concep	t that "DNA carries t	he genetic informa	ıtion" was gi	ven by
a) Singer & Nico	olson b) W	atson & Crick		
			7*11 *	
c) Avery, I	Macleod & McCarty	d) Franklin & W	/1lK1ns	
	cal agent used in Fisc			1 1 .
a) HCl	b) HCN	c) H_2O_2	d) Hy	droxyl amine
24. Which of the	ne following is a Dec	oxy sugar		
a) Ribose	b) Fucose	c) Lactose	d) Mai	nnose
25 An example	e for a Non- reducing	disaccharide is		
a) Lactose	b) Trehalose	c) Maltose	d) Cello	obiose
26. Bacterial ce a) NANA	ell wall polysaccharid b) NAMA	le has the followin c) Chitin		ponent Dextran
a) INAINA	U) INAINIA	c) Cilitiii	u)	Deauan

27. Lactose prod	luces characteristic	shap	shaped Osazone crystals			
a) Hedge ho	g b) Sunflower per	tals c) Rhombic	rods d) Ba	adminton ball		
•	bstrate(ES) complex -Menten b) Sutherla		-	umner		
29. The ratio of	salt to acid in phospha	ate buffer system is				
a) 1:20	b) 1:4	c) 20:1	d) 4:1			
20. The physical	ogical pH of human pl	osmo is				
a) 5.4	b) 6.4	c) 7 .4	d) 8.4			
,	,	,				
	of possible stereoison	·				
a) 6	b) 8	c) 16	d) 32			
32. Identify the	Non-diffusible ion -					
a) Na ⁺	b) K ⁺	c) Cl ⁻	d) Prote	ein ⁻		
33. The ratio of	salt to acid in bicarbo	nate buffer -				
a) 20:1	b) 4:1	c) 6:1		d) 3:1		
a) D-Ribulos35. Which of the a) Glycogen36. The structure a) Bilipid lay layer	 34. By Kiliani – Fischer synthesis, D-Glucose can be synthesized from – a) D-Ribulose b) D- Xylulose c) D- Arabinose d) D-Ribose 35. Which of the following contains β-glycosidic linkage? a) Glycogen b) Cellulose c) Heparin d) Starch 36. The structure of the cell membrane is described as - a) Bilipid layer b) Biprotein layer c) Bicarbohydrate layer d) Glycoprotein layer 					
	e following does not h b) Xylulose			d) Erythrulose		
	"GAG" that acts as lu			a) <u> </u>		
a) Heparin	b) Hyaluror	nic acid c) Chono	droitin -4 SO ₄	d) Glycogen		
39. The breakdo	wn product of starch i	s –				
a) Dextrins	b) Dextran	c) Dextro	ose	d) Dextra-		
amine						
40. Invert Sugar	is –					
a) Lactose	b) Maltose	c) Sucro	se	D) Glucose		
41. In sphingom	yelins the alcohol is -	-				
a) Glycerol	b) Cetyl alcohol	c) Glycol	d) Sphii	ngosine		

42	42. Respiratory distress syndrome is due to the deficiency of -								
	a) Dipalmitoyl	Lecithin	b) Cholesterol	c) Dipalmitoyl	Cephalin	d)			
	Lysolecithin								
43	43. Gangliosides are the Glycolipids present in -								
	a) Liver	b) :	Brain	c) Kidney	d) N	Muscle			
44	The 'Bad Cho	lesterol' is	_						
	a) VLDL	b) LDL	c) HDL	d) Ch	ylomicrons				
45	Thromboxanes	s promote -							
	a) Blood Clott	ing b)	Vasodilation	c) Uterine Contra	ction d) E	Bleeding			
46	Pick the odd o	ne out -							
	a) Glycine	b)]	Methionine	c) Cysteine	d) C	Cystine			
47.	The non- prote	ein part of a	conjugated pro	otein is called					
	a) Prosthetic g	roup b) A	amino group	c) Anomeric group	d) Oligom	eric group.			
48	The aromatic a	amino acids	s absorb maxim	um amount of ligh	nt at -				
	a) 260 nm	b) 2	280 nm	c) 450 nm	d) 6	00 nm			
49	The 3-D struct	ure of Hem	noglobin was di	scovered by -					
	a) Watson & C	Crick b) I	Max F Perutz	c) John C Kendre	w d) GN				
	Ramachandrar	1							
50	The stable α-h	elix formed	l by a polypepti	ide, made up of on	ly D-amino a	acids will			
	be -								
	a) Left-handed	l b)	Right- handed	c) Both	d) None of	the above			
51.	Left handed he	elical DNA	is						
	a) B – DNA	b) .	A- DNA	c) Z- DNA	d) n	nt- DNA			
52.	The number of	f base pairs	in 'Z' form of	DNA is –					
	a) 10	b) 10.5	C	2) 11	d) 12				
53.	Attachment of	pyrimidine	base to ribose	sugar occurs throu	ıgh	_ atom			
	a) N-1	b) C-3	c) N-9	d) C-1				
54	The energy cu	rrency of th	ne cell –						
	a) ATP	b) Glucos	e c)	Glycogen	d) F	at			
55.	Protein synthe	sis occurs i	n –						
	a) Lysosomes	b) Go	olgi apparatus	c) Ribosomes	d) N	Vucleus			

56. Glucose upon oxi	dation with concen	trated HNO3 will giv	e
a) Gluconic acid	b) Glucuronic acid	c) Glucosaccharic a	acid d) None of the
above			
57. Iodine test gives p	oink color with		
a) Glycogen	b) Starch	c) Dextrin	d) Cellulose
58. Which among the	e following is a basi	c amino acid?	
a) Aspartic acid	b) Asparagine	c)Leucine	d) Lysine
59. The first protein f	for which the tertiar	y structure was disco	overed is
a) Insulin	b) Myoglobin	c) Hemoglob	in d) Silk fibroin
60. The DNA having	10.5 base-pairs per	helix is	
a) B – DNA	b) A- DNA	c) Z- DN	d) mt- DNA
61. Which among the	e following is a Puri	ne base?	
a) Thymine	b) Thiamine	c) Guanine	d) Cytosine
62. Identify the nucle	otide -		
a) Adenosine	b) Guanine	c) ATP	d) Cytosine
63. The typical struct	ure of t-RNA is des	cribed as –	
a) Double helix	b) Clover-leaf	c) Triple hel	ix d) β-sheets
64. Which among the	e following acts as a	surfactant in Lung?	
a) Lecithin	b) Cardiolipin	c) Cephalins	d) Triacylglycerol
65. The parent compo	ound for bile acids i	s	
a) Arachidonic a	acid b) Stearic aci	id c) Cholesterol	d) Acetic acid
66. The 'Good Chole	esterol' is		
a) VLDL	b) LDL	c) HI	DL
d) Chylomicrons			
67. Which among the	e following is a glyc	colipid?	
a) Keratin	b) Cephalin	c) Cerebroside	d) Cholesterol
68. Which among the	e following is a acid	ic amino acid?	
a) Aspartic acid	b) Asparagii	ne c) Leucine	d) Lysine

69. The first pr	rotein for which the	primary structur	e was discove	ered is			
a) Insulin	b) Myogl	obin c) F	Hemoglobin	d) Silk fibroir			
70. The 'suicional Mitochonal Mit	dal bags' of the cell		osomes d) Peroxisomes			
71. Iodine test	gives violet color v	vith					
a) Starch	b) Glycogen	c) Dextr	rin d) Cellulose			
72. The odd ch	nain fatty acid amor	ng the following is	s				
a) Propion	ic acid b) Acetic a	acid c) Butyri	c acid	d) Stearic acid			
73. Which amo	ong the following is	s a C ₁₆ monounsa	aturated fatty a	acid?			
a) Oleic ac	id b) Linoleic aci	d c) Linolen	nic acid d) Palmitoleic acid			
74. Sulfur cont a) Arginin	taining amino acid a te b) Aspar		ing is ysteine	d) Lysine			
75. Identify the	e nonstandard amin	o acid					
a) Alanine	b) Ornit	hine c)	Proline	d) Histidine			
76. Which of t	he following DNA	A is a left handed	l helix?				
a) B –DNA	b) A- DNA	A c) 2	Z- DNA	d) mt- DNA			
77. Nucleic ac	ids have an absorp	tion maxima (λ _{max}	_x) at				
a) 260 nm b) 280 nm c) 360 nm d) 380 nm							
70 5							
a) Adenir	Tracil is otherwise by Guar		Thymine	d) Cytosine			
79. Carbonic a	nhydrase requires _	as a c	o-factor				
a) Mo ²⁺	b) M	\lg^{2+} c)	Zn^{2+}	d) Ca ²⁺			
80. Chemi-osn	notic hypothesis wa	ıs given by					
a) Peter M	itchell b) F.Kı	noop c) H	lans Kreb	d) Paul Boyer			
81. Which amo	ong the following is	s a Physiological ı	uncoupler?				
a)DNP	b) Cyanide	c) Thermogeni	in d) B.	AL			
82. Glycerol -3	3-phosphate shuttle	operates in					
a) Heart	b) Kidney	c) Liver	d) Skeletal m	uscles			

83. No. of ATPs produced when acetyl CoA is oxidised via TCA cycle is	
a) 10 b) 15 c) 30 d) 32	
84. Fatty acid biosynthesis occurs in	
a) Mitochondrial matrix b) Lysosomes c) Cytoplasm d) Peroxisomes	
85. Which of the following is a thioester compound?	
a) Acetyl CoA b) Coenzyme A c) Acetoacetate d) Glutathione	
86. The nucleotide involved in Glycogenesis is	
a) ATP b) GTP c) CTP d) TTP	
87. The number of NADH ₂ produced in glycolysis is	
a) 4 b) 3 c) 2 d) 1	
88. Carnitine is required for the transport of	
a) Malate b) Pyruvate c) Fatty acids d) Amino acid	
89. All Kinase enzymes requireas their co factor	
a) Magnesium b) Manganese c) Nickel d) Molybdenum	
90. Which one of the following is associated with bad cholesterol?	
a) HDL b) LDL c) VLDL d) Chylomicrons	
91. The end product of purine metabolism in Cattle is	
a) Urea b) Uric acid c) Allantoin d) Ammonia	
92. The source of N_9 of purine ring is	
a) Glutamine b) Glycine c) Aspartate d) N ⁵ , N ¹⁰ methylene TH4	
93. The lipoprotein which is involved in reverse cholesterol transport is	
a) HDL b) LDL c) VLDL d) Chylomicrons	
94. Lipase requiresas a co-factor.	
a) Mo $^{2+}$ b) Mg $^{2+}$ c) Zn $^{2+}$ d) Ca $^{2+}$	
95. The lipid soluble mobile electron carrier in ETC is	
95. The lipid soluble mobile electron carrier in ETC is a) Cvt C b) Co-enzyme O c) Cvt bc1 d) Oxygen	
 95. The lipid soluble mobile electron carrier in ETC is a) Cyt C b) Co-enzyme Q c) Cyt bc1 d) Oxygen 96. HMP pathway takes place in 	

97.	The number of FADH2 produced in TCA cycle is					
	a) 4	b) 3	c) 2		d)	1
98.	Which one of	the follow	wing is associat	ed w	rith Apo B100	?
	a) HDL	b) LDL	c) VLI	DL	d) (Chylomicrons
99.	Among dome	stic anima	als, Hyperinsuli	nism	is most comi	monly reported in
	a) Horses	b) Dogs	c) F	Pigs	(d) Cats
100.	Which among	g the follw	ing is a negati	ve ac	cute phase pro	tein?
	a) Ceruloplasi	min b)	Serum amyloid	lΑ	c) Protein (C d) Albumin
101. The Clearance test which is used for measuring Glomerular filtration rate.						
	a) Ureab) PA	Ж	c) Inulin	d) l	Diodrast	
102. The major site of plasma protein synthesis is						
	a) Liver	b)	Intestines	c) I	Kidneys	d) Pancreas
103. The preferred anticoagulant for blood glucose estimation is						
	a) EDTA	b)	Sodium fluorid	e	c) Heparin	d) Sodium
	Citrate					
104.	Rothera's test	is routin	ely used in the	diag	nosis of	
	a) Alkalosis	b) Milk fever	c`) Ketosis	d) Jaundice

Answer key

- 1. c) Allantoin
- 2. a) Leucine
- 3. a) Pigs
- 4. c) Aspartate
- 5. c) Thiophorase
- 6. b) Lysine
- 7. c) 2 months
- d) Insulin
- 9. b) Hypothyroidism
- 10. d) Glutaraldehyde coagulation
- 11. b) RNA pol II
- 12. a) Cats
- 13. c) D. Koshland
- 14. b) 16.67 nkatal
- 15. a) Mo 2+
- 16. a) 1.5
- 17. c) 37°c
- 18. c) N-9
- 19. c) Bases
- 20. c) 11
- 21. b) m-RNA
- 22. c) Avery, Macleod & McCarty
- 23. b) HCN
- 24. b) Fucose
- 25. b) Trehalose
- 26. b) NAMA
- 27. d) Badminton ball
- 28. a) Michaelis-Menten

- 51. c) Z-DNA
- 52. d) 12
- 53. a) N-1
- 54. a) ATP
- 55. c) Ribosomes
- 56. c) Glucosaccharic acid
- 57. a) Glycogen
- 58. d) Lysine
- 59. b) Myoglobin
- 60. a) B DNA
- 61. c) Guanine
- 62. c) ATP
- 63. b) Clover-leaf
- 64. a) Lecithin
- 65. c) Cholesterol
- 66. c) HDL
- 67. c) Cerebroside
- 68. a) Aspartic acid
- 69. a) Insulin
- 70. b) Lysosomes
- 71. a) Starch
- 72. a) Propionic acid
- 73. d) Palmitoleic acid
- 74. c) Cysteine
- 75. b) Ornithine
- 76. c) Z- DNA
- 77. a) 260 nm
- 78. c) Thymine

- 29. d) 4:1
- 30. c) 7.4
- 31. c) 16
- 32. d) Protein
- 33. a) 20:1
- 34. d) D-Ribose
- 35. b) Cellulose
- 36. a) Bilipid layer
- 37. c) Dihyrodxyacetone
- 38. b) Hyaluronic acid
- 39. a) Dextrins
- 40. c) Sucrose
- 41. d) Sphingosine
- 42. a) Dipalmitoyl Lecithin
- 43. b) Brain
- 44. b) LDL
- 45. a) Blood Clotting
- 46. a) Glycine
- 47. a) Prosthetic group
- 48. b) 280 nm
- 49. b) Max F Perutz
- 50. a) Left-handed

- 79. c) Zn²⁺
- 80. a) Peter Mitchell
- 81. c) Thermogenin
- 82. d) Skeletal muscles
- 83. a) 10
- 84. c) Cytoplasm
- 85. b) Coenzyme A
- 86. c) CTP
- 87. c) 2
- 88. c) Fatty acids
- 89. a) Magnesium
- 90. b) LDL
- 91. c) Allantoin
- 92. a) Glutamine
- 93. a) HDL
- 94. d) Ca ²⁺
- 95. b) Co-enzyme Q
- 96. c) Cytoplasm
- 97. d) 1
- 98. b) LDL
- 99. b) Dogs
- 100. d) Albumin
- 101. c) Inulin
- 102. a) Liver
- 103. b) Sodium fluoride
- 104. c) Ketosis

VETERINARY OBSTETRICS AND GYNAECOLOGY

1	Veterinary G	ynaec	ology	(,
1				(,
	The length of the estrus cycle in ewes is		10.1		
	a. 16 days	b.	18 days		
2	c. 20 days	d.	None of these	,	,
2	Induced ovulation occurs in		D 111	(,
	a. Cat	b.	Rabbit		
2	c. Ferrets	d.	All the above	,	`
3	Gestation length in a buffaloe is about		1000 1	()
	a 285 days	b	222 days		
	c 111 days	. d	310 days		
4	The probable cause of delayed ovulation in co			()
	a Delay in Progesterone release	b	Delay in estrogen release		
_	c Delay in Prostaglandin release	d	Delay in LH release		
5	In sows, signs of estrus include all of the follo	owing ex	_	()
	a Perked up ears	b	Mounting of the male by sow		
	c Salivation, champing and grunting	d	Standing to be ridden by the		
			boar		
6	Predominantly how many follicular waves or	curring of	during estrous cycle in bovine?	()
	a 1	c	3		
	c 2	d	4		
7	The onset of puberty in dogs is			()
	a 5-6 months	b	6-12 months		
	c 12-15 months	d	16-18 months		
8	Endometrial cups present in			()
	a Mare	b	Cow		
	c Sow	d	Bitch		
9	Which of the following is not a predisposing			()
,	degeneration in cows?	cause 101	t the cystic ovarian	(,
	a Heredity	b	intensive		
	c Nutrition	d	Milk yield		
10	Which of the following enzyme involved dur	•	<u> </u>	()
10	a lipase	mg the p	Hyaluronidase	(,
	c Collagenase	d	Esterase		
11	Which of the following hormone steadily inc			()
11	bitches?	icases ar	ound the time of ovulation in	(,
	a GnRH	b	Progesterone		
	c LH	d	Estrogen		
12	Abortion caused by the vibriosis is due to	u	Lanogen	()
14	a C. fetus	b	Mycotic	(,
	c Brucella abortus	d	None of the above		
13	Which of the following does not occur during			()

		Mitotic division Expansion of cumulus cells	b d	Cytoplasmic growth Nuclear arrest		
14	Inhibi	n has got negative feedback over hypotle of	nalamu	s and pituitary to control the	()
	a F	FSH alone	b	LH alone		
	c F	SH and Prolactin	d	None of the above		
15		ollowing cells will be identified in VEC of RBC	Bitche b	Intermediate and Superficial	()
	o N	Neutrophils	d	cells All the above		
16		nost accurate measurement of ovulation ting			()
10		.H	b	PGF2 alpha	(,
		Prolactin	d	FSH		
17		nce a day dose of bromocriptine for treatir			()
	a 1	0-30 mg/kg	b	100-300 mg/kg		
		0-30 μg/kg	d	100-300μg/kg		
18		n one is a antiprogestin drug			()
10		Crestar	b	Misoprostol	`	,
		Aglepristone	d	TRIU-B		
19		l cyst is		_	()
	a A	novulation	b	Usually develops from		
				normal CL		
		formally develops just after ovulation	d	None of the above		
20	Early	embryonic death is suspected from			()
	a	Long estrus cycle	b	Short estrus cycle		
0.1	C	Intense estrus	d	None of the above	,	,
21		of the following is not the function of ute		C	()
	a	Gametogenesis Contribution to placenta	b d	Control of cyclicity Provides environment for		
	c	Contribution to placenta	u	pre-attachment embryo		
22	Fertili	zation takes place at the		pre attachment emoryo	()
	a	Uterotubal junction	b.	Ampulary isthmic junction	`	,
	c	Isthmus	d.	Ampula		
23	The functional cyclical corpus luteum of non pregnant animal is)
	a.	Albicans	b.	spurium	(
	c.	Verum	d.	Cystic CL		
24	Time	of ovulation in cattle			()
	a	12 hours after end of estrum	b.	Diestrum	`	
	c.	12 hours before onset of estrum	d.	All the above		
25		yo transfer can be used to			(`
<i>43</i>	Linory	Rapidly increase rare blood lines		To obtain more off springs	()
	a	rapidly increase face blood filles	b.	from valuable females		
	c.	To facilitate progeny testing and thus	d.	All of the above		

	reducing the generation interval				
26	Which one is not a steroid hormone secreted f	_		()
	a Relaxin	b.	Progesterone		
	c. Androgens	d.	Estrogens		
27	PMSG is a glycoprotein hormone similar to			()
	a LH activity	b.	Progesterone like activity		
	c. FSH activity	d.	None of the above		
28	Leptospirosis causes abortion in bovine which	is diagr	nosed by	()
	a MAT	b.	White side test		
	FAT	a.	None of the above		
	C.	d.			
29	In a good maintained cattle farm, the ideal ser	rvice per	r conception is	()
	a 1.5 to 1.7	b.	2.0 to 3.0		
	c. 2.5 to 3.7	d.	None of the above		
30	The block to polyspermy is at the zona pelluci	da is see	en in	()
	a Sheep and swine	b.	Rabbit		
	c Both a and b	d.	None of the above		
31	The duration of the proestrum in dog is			()
	a. 16 days	b.	18 days		
	c. 9 days	d.	None of these		
32	Spontaneous ovulation occurs in			()
	a. Cat	b.	Rabbit		
	c. Ferrets	d.	Mare		
33	Gestation length in a mare is about			()
	a 285 days	b	660days		
	c 111 days	d	310 days		
34	Animal showing external evidence of pro-oest	rus with	vulval oedema, hyperemia &	()
	sanguinous vulval discharge is				
	a Cattle	b	Bitch		
	c Doe	d	Ewe and Mare		
35	Mammary gland duct system growth is under	the influ	ience of	()
	a Estrogen	b	Progesterone		
	c Prolactin	d	Prostaglandins		
36	Exogenous oxytocin has luteolytic action in —			()
	a Bitch	b	Cow and Ewe		
	c Cattle and Sow	d	Cow and Doe		
37	Mammary gland alveolar growth is under the influence of				
	a Estrogen	b	Progesterone		
	c Prolactin	d	Prostaglandins		
38	Predominate Ig in follicular fluid is ———			()
	a Ig A	b	Ig M		
	c Ig G	d	Ig E		
39	4 – Cell stage embryo is transported from site	of fertil	lization to uterus in	()

	a	Sow	b	Mare		
	c	Ewe	d	Cattle		
40	Tra	nsuterine migration of embryo is absent ir	ı ——		()
	a	Bitch	b	Cattle		
	c	Sow	d	Both a and c		
41	Ma	ternal Recognition of Pregnancy (M.R.P)	is respon	sible for	()
	a	Fetal growth	b	Implantation		
	c	Maternal circulation	d	Fertilization		
42	Firs	st maturation division / meiotic division is	not com	pleted at the time of ovulation	()
	in					
	a	Sow	b	Cattle and Buffaloe		
	c	Ewe and Doe	d	Mare and Bitch		
43	Hip	ppomanes are usually found in ———			()
	a	Yolk sac	b	Amniotic fluid		
	C	Allantoic fluid	d	All of these		
4.4	α.				,	
44		roid hormones have receptors in —	٠,	N. 1	()
	a	Cytoplasm	b	Nucleus		
4.5	C	Cell membrane	d	Both a & c	,	`
45		anabolic hormone ——	1	T	()
	a	Insulin	b	Estrogen		
	c	Testosterone	d	All of these		
46	Λn	animal in which pheromones are secreted	in colive	foam	(`
40	a	Boar	b b	Bull	(,
	a C	Stallion	d	Ram		
	C	Stamon	u	Kam		
47	The	e C.L persists through out pregnancy in all	farm an	imals except——-	()
				<u>-</u>	`	
	a	Mare	b	Cow		
	c	Ewe	d	Dog		
48		— is the major metabolic fuel for foetus			()
	a	Glucose	b	Cervical fluid		
	c	Cellulose	d	None of the above		
49	Cor	ngenital valvular defects are common in _		species	()
	a	Mare	b	Cow		
	c	Ewe	d	Dog		
50	C	on focundation is more common in			(`
50	-	per fecundation is more common in ——————————————————————————————————		Mare	()
	a	Dog and Cat				
	С	Ewe	d	None of the above		
51	Ma	tch the following			()
		Chediak Higashi syndrome 1. Swir	ne		`	,
		-	ping gait			

	C. Anury D. Twinning 4. Boars E. "Balling Up" 5. Iodine deficiency F. Prolonged gestation 6. Equine abortion		
	a 3, 1, 2, 6, 4, 5 c 6, 3, 1, 5, 2, 4 b 2, 5, 3, 1, 6, 4 d 5, 3, 6, 2, 1, 4		
52	Match the following A. Mature C.L. B. Female genitalia C. Slipping of fetal membranes D. Male genitalia 1. Mesonephric duct 2. 40 – 90 days of gestation 3. 80 – 120 days of gestation 4. Liver fluke like consistancy	()
	E. FremitusF. Cuboni TestF. Cuboni Test<td></td><td></td>		
	a 4, 1, 3, 5, 2, 6 b. 4, 1, 6, 5, 3, 2		
53	c 4, 5, 2, 1, 3, 6 d. 4, 5, 3, 1, 6, 2 Match the following A. Pseudo pregnancy 1.Dog & Cat	()
	B. Prostaglandin antagonist C. Endotheliochorial placenta D. Epitheliochorial placenta E. Accelerating parturition F. Synepitheliochorial placenta 1. Dog & Cat 2. Ruminants 3. Carazolol 4. Bromocriptine 5. Horse & Pig 6. Indomethacin		
	a. 4, 3, 6, 1, 5, 2 c. 4, 6, 1, 5, 3, 2 b. 6, 3, 5, 2, 4, 1 d. 6, 1, 5, 2, 4, 3		
54	Unfertilized ovum remains for months in the oviduct of ——species a Sow b. Mare c. Ewe and Doe d.	()
55	In sows, maternal recognition of pregnancy is mainly due to the action of	()
	a Interferon tau b. Oxytocin		,
	c. Estrogen d. Prostaglandins		
56	Endometrial cups are formed from a chorionic girdle (fetal origin) b. maternal caruncles	()
	c. endometrium (maternal origin) d. none of the above		
57	In sow, the villi near the endometrial glands are enlarged and specialized to form structures called	()
	a Hippomanes b. Amniotic plaques		
	c. Areolae d. Placentomes		
58	Most of the developmental anomalies occur during	()
	a Period of embryo b. Period of ovum	`	,
	c. Period of fetus d. During birth		

59	Lo	ow land abortion or Mars	h lar	nd abortion is due	to				()
	a	Fescue poisoning			b.	Leptospi	rosis			
	c.	Nitrate poisoning			d.	None of	the abo	ove		
60	Tr a c	richomonas abortion is m First trimester Third trimester	ore (common in ——tri	meste b. d.	r of pregn Second t None of	rimeste		()
61.	Ope	ening the isthumus into the	ne u	terus is called as			()		
	a.	Ostium tubae abdominale	b.	Ostium tubae ute	rinun	1				
	c.	Utero tubal junction	d.	Non of these						
62.	The is	e number of the caruncle	pres	ent in the endome	trium	of cow	()		
63.	a. c. Cys	150-197 88-96 stic ovarian degeneration	b. d. in b	77-87 70-120 ovine is due to	(
	a.	Hypocalcemia	b.	Hyphokalemia						
	c.	Cholestrol excess	d.	Lack of LH						
64.	•	rectal examination in cat hil days of preg			cento	omes	()		
	a.	75 to 80 days	b.	45 to 50 days						
	c.	95 to 100 days	d.	120 to 180 days						
65.		atyphoid abortion, a form	n of	salmonellosis in sl	heep i	İS	()		
	a.	Salmonella abortus ovis	b.	Salmonella dubli	n					
	c.	Salmonella meleagridis	d.	All the above						
66.	Spo	ontaneous ovulation occu	rs in	ı			()		
	a.	Cat	b.	Rabbit						
	c.	Mare	d.	All the above						
67.	Wh	ite side test is used for th	e di	agnosis of			()		
	a.	Sub clinical	b.	Listeriosis						

Endometritis

	c.	Anestrum		d.	Endometritis		
68.	MA	ATCH THE FOLLO	WI	١G			
	B. I C. C Tra D. I E. I	Post partum vaginal Pseudo pregnancy Cervical mucus nsfer,1890 Embryonic estrogen Heape Delaying Parturition	l	charge	1. Glycoprotein 2. Secundus 3. Embryo 4. Clenbuterol 5. M.R.P. in Pig 6. Cabergoline	()
	a.	2, 6, 1, 5, 3, 4		b.	2, 4, 5, 1, 3, 6		
	c.	6, 5, 1, 2, 4, 3		d.	5, 3, 2, 1, 4, 6		
69.	•	her-like thickening			f the fetal cotyledons and of the inter cotyledonary	()
	a	Vibriosis		c	Listeriosis		
	b	Leptospirosis		d	Tuberculosis		
70	Th a c	ne type of bovine ut Bicornuate Duplex	erus b d	Sim		()
71	Th	GnRH hormon	ne pr b	rimes Estro		()
72	C Tl	LH	d	Ĭ	resterone	(`
72		ne corpus luteum wi ostaglandin in First four day of cycle		_	four day of cycle	()
70	c				e of the above	,	,
73	a c	Vagina uterus	ng 1s b d	norm cerv		()
74	Tl a	ne ovulation time in Onset of LH surge	ewe b		day of estrous	()
	c	5 hrs after onset of estrous	d	5 hrs	s after LH surge		
75	W	hen estradiol is hav	ing	positi	ve feedback	()

	a	Inhibin is high	b	Dominant follicle				
	c	Absence of	d	Activin is high				
		Progesterone						
76	Tł			ontent of LH is highest in	()		
	a	Sheep	b	Horse				
	c	Man	d	None of the above				
77	Tł	ne onset of puberty			()		
	a			8-12 months				
70	C	12-15 months	d	16-18 months		,		
78		ne preovulatory LH)		
		Tonic center Both a & b	b	Surge center None of the above				
	c							
79				prevents	()		
		efeminisation of sur						
	a	Glycoprotein	b					
	c	α fetoprotein	d					
80				etermine the viability of late-term)		
			e to	llowing is not a radiographic sign of				
		tal death?	1	A1				
	a			Absence of molar teeth in fetal jaws				
	c	2 0 0002	d	Hyperflexion of fetal bodies				
		subcutaneous						
81	gas Intrauterine oxygen reductase potential (Eh) can be used to							
01	find							
	a	Degree of	b	Degree of Damage to endometrium				
	и	bacterial	V	Begree of Banage to endometrium				
		infection						
	c	Presence of	d	Presence of Prostaglandins				
		RBCs						
82	O	xytocin and Vasopr	essi	on are very similar in composition	()		
				amino acids in these tow hormones	•			
		ing similar						
	a	7	b	6				
	c	4	d	2				
83				ls in the ovaries of the individual	()		
	ca	~ .		anging from to				
	a	0 to 2 Lakhs	b	1000 to 1 Lakhs				
	c	0 to 7 Lakhs	d	10,000 to 1 Lakhs				
84			ac	ow is pregnant when progesterone	()		
	le	vels in the milk are						
	a	High at the time	b					
		of AI and high		days later				
		21 days later	.1	I am at the time of AI 11 21				
	c	High at the time	d	Low at the time of AI and low 21				

	of AI and low		days later			
0.5	22 days later			,	,	
85	Superovulation involv	_	101 6	()	
	a The	b	Inseminating once, 12 hours after			
	administration		detecting the cow in heat			
	of PGF 2 days					
	before starting					
	FSH injections	J	Name of the shows			
	c repeated FSH	d	None of the above			
	injections, 8 in					
	total, beginning					
	on day 10 -12 of					
0.6	the estrous cycle		1			
86			ng having the anti-estrogenic effect)	
	a MAP	b	MGA			
07	c CAP	d	MRL4		\	
87	In "spilt heat" a Estrus	h	Animal will conssive if knod)	
		b	Animal will conceive if bred			
	symptoms not					
	expressed clearly					
		d	Animal will have prolonged estrus			
	c Animal does not ovulate	u	Annual win have prolonged estrus			
88	Which of the following enzyme involved during the process of					
	ovulation in cows					
	a lipase	b	Hyaluronidase			
	c Collagenase	d	Esterase			
89		_	atement is not true with regard to	()	
	luteolysis in farm anii					
	a Presence of	b	Presence of critical level of			
	oxytocin		oxytocin			
	receptors on					
	endometrial					
	cells	,	D 64 1 111 1 6111			
	c PGF2 alpha	d	Presence of threshold level of LH			
	synthesis by					
0.0	endometrium			,	,	
90			or the initial recruitment of the	()	
		follo	owing hormonal condition is			
	essential	L	High ECH and high LH			
	a Low FSH and	b	High FSH and high LH			
	high LH c Low FSH and	d	High ECH and low I H			
		d	High FSH and low LH			
91	high Inhibin	mat	rial cups in mare during pregnancy	()	
<i>)</i> 1	can be detected in circ			(,	
	can be detected in the	Juia	uon until			

	a c	40 days 60 days	b d	80 days 120 days				
92	a c	station length in sw 333 days 111 days	b d	222 days 210 days	(
93	Th a	e length of the tubu Mare	lar p b	part of the horn is longer in Cow	(
	c	Sow	d	Bitch				
94	oco a	cational symptoms of Nymphomania	of b					
	c	Both a and b	d	None of the above				
95	tre	atment is initiated of	n w	er ovulatory response, gonadotropin hich day of estrous cycle	(
	a	=	b	5-9				
	С	9 - 14	d	14 – 17				
96		ised by	he r	nularian or paramesonephric ducts is	(
	a	Single, recessive, sex- limited gene	b	Single sex-limited gene				
	c	Single, dominant, sex- limited gene	d	None of the above				
97	Th	_	mu	cus during estrum in mare is ()			
					,			
	a	7.9 to 8.1	b	8.5 to 8.7				
	c	6.5 to 7.0	d	7.1 to 7.5				
98	abo	out		at the time of birth in mare is ()			
	a	120 to 150 grams	b	40 to 70 grams				
	c	20 grams	d	None of the above				
99	Pu	berty in cats usuall	y oc	ecurs between ()			
	months of age depending upon the kittens nutritive state							
	and	d genetic backgrour	ıd.					
	a	3 and 4	b	12 and 15				
	c	7 and 12	d	None of the above				

Dystrophia adiposogenitalis or Frohlich's syndrome is (100) occasionally observed in dogs of either sex and is caused by tumors of the -----

a Pituitary b Hypothalamus d None of the above c Both a and b

Key answers

Question	Answer	Question	Answer	Question	Answer	Question	Answer
No.		No.		No.		No.	
1	a	26	a	51	a	76	a
2	d	27	c	52	c	77	d
3	d	28	c	53	c	78	b
4	d	29	a	54	b	79	c
5	b	30	d	55	С	80	b
6	b	31	c	56	a	81	a
7	b	32	d	57	С	82	b
8	a	33	b	58	a	83	С
9	b	34	b	59	С	84	b
10	С	35	a	60	a	85	a
11	С	36	d	61	c	86	d
12	a	37	b	62	d	87	С
13	d	38	c	63	d	88	С
14	a	39	a	64	a	89	d
15	d	40	b	65	d	90	d
16	a	41	b	66	С	91	d
17	С	42	d	67	a	92	С
18	С	43	c	68	a	93	С
19	a	44	a	69	a	94	С
20	b	45	d	70	d	95	a
21	a	46	a	71	a	96	a
22	b	47	a	72	d	97	a
23	b	48	a	73	d	98	С
24	a	49	a	74	d	99	С
25	d	50	a	75	b	100	c

Veterinary Obstetrics

1	The	incidence of dystocia in posterior presentation	on of f	etus in unipara is	()		
	a.	Low	b.	Moderate				
	c.	High	d.	Absent				
2	Primary uterine inertia is seen most often in which species?							
	a.	Ewe	b.	Bitch				
	c.	Mare	d.	Sow				
3		onged dystocia leads to fatigue of the uterinetraction rings called as	ne mu	scle and produce contraction	()		
	a	Schaafer's ring	b	Uterine ring				
	c	Bandle's ring	d	Robert's ring				
4	Sma	all litter size leads to cause larger fetuses that	may p	predispose to dystocia in	()		
	a	Ewe	b	Bitch				
	c	Mare	d	Sow				
5	Obs	tetrical hooks may be long or short but shoul	d alwa	ays be	()		
	a	Pointed	b	Straight				
	c	Sharp	d	Blunt				
6	Rep	ulsion may be accomplished by the operator	's arm	, the arm of an assistant or by	()		
	a	Fetotome	b	Ropes				
	c	Crutch repeller	d	Obstetrical chain				
7	The	corneas are grey and opaque after the fetus h	as be	en dead for	()		
	a	6 to 12 hours	b	12 to 20 hours				

	c	48 to 72 hours	d	24 to 48 hours		
8	Ver	sion is most often done while transverse vent	ral pro	esentation in	()
	a	Sow	b	Buffalo		
	c	Mare	d	Queen		
9	The	uterine twisting of the birth canal is often no	ot notio	ceable in	()
	a	a. 90 degree torsion	b	270 degree torsion		
	c	180 degree torsion	d	360 degree torsion		
10		wnward deviation of the head between the forcies except	relimb	is occasionally seen in all	()
	a	Sow	b	Bitch		
	c	Mare	d	Ewe		
11		al ascities is seen as an occasional cause for dest often in	lystoci	a in any species but occurs	()
	a	Sow	b	Bitch		
	c	Mare	d	Cow		
12	Pero	osomus elumbis if occurs in posterior present	ation	may be mistaken for	()
	a	Wry neck	b	Vertex presentation		
	c	Dog sitting posture	d	Breech presentation		
13	Glu	teal paralysis is rare and is described only in			()
	a	Sow	b	Ewe		
	c	Mare	d	Cow		
14		natomas and contusions of the vagina or the nals but most commonly in	vulva	are occasionally noted in all	()
	a	Cow and Ewe	b	Mare and Sow		
	c	Sow and Bitch	d	Bitch and Queen		

15	In most cows the presence of very relaxed ligaments indicates that parturition will probably occurs in							
	a	6 to 12 hours	b	12 to 20 hours				
	c	48 to 72 hours	d	24 to 48 hours				
16	Aln	nost all severe dystocia occurs in heifers wit	h with	pelvic area of	()		
	a	200 to 240 sq. cm	b	250 to 270 sq. cm				
	c	290 to 320 sq. cm	d	270 to 290 sq. cm				
17	Schistosoma reflexus is seen in cow and occasionally in sheep, goat and pig but							
	a	Very common in other species	b	Rarely in other species				
	c	Frequently in other species	d	Never in other species				
18	The	e technique of epidural anesthesia was introd	uced b	by Benesch in	()		
	a	1935	b	1915				
	c	1945	d	1926				
19	The	e condition of obturator paralysis is			()		
	a	More prevalent in heifers than in cows	b	More prevalent in cows than in heifers				
	c	Commonly prevalent in both cows and heifers	d	More prevalent in heifers than in cows				
20		e turning of the fetus on its long axis to bring alled	the fe	etus into dorso-sacral position	()		
	a	Repulsion	b	Rotation				
	c	Adjustment of extremities	d	Version				
21	In which species abdominal contractions are so violent that if the fetus is in proper presentation, position and posture, forced extraction is seldom necessary?							
	a	Bovine	b.	Feline				
	c	Swine	d.	Equine				

22	Necrotic vaginitis and vulvitis is observed most often in							
	a	Dairy and beef heifers	b.	Bitch and queens				
	c	Mare	d.	Sow				
23	fetal	emphysema and sloughing of the hair is pr	esent 1	the fetus has been dead for	()		
	a.	6 to 12 hours	b	12 to 24 hours				
	c.	48 and more	d	24 to 48 hours				
24	-	peral tetany or eclampsia in the bitch and cacterized by	at is a	metabolic disease	()		
	a	Hypoglycemia	b.	Hypercalcemia				
	c.	Hypocalcemia	d.	Hyperglycemia				
25	Dystocia caused by the cord being wrapped around a portion or extremity of fetus							
	a	Frequently occurs in domestic animals	b.	Frequently causes fetal dead in domestic animals				
	c.	Frequently causes dystocia	d.	Does not occurs in domestic animals				
26		ng parturient paresis in cow the blood serulal of 8-12 g/100ml to	m calc	ium level drops from a	()		
	a	3-7g/100ml	b	Less than 2g/100ml				
	c	8-9g/100ml	d	Less than 1g/100ml				
27	The i	ncidence of Hydramnios in cattle is			()		
	a	5-10 %	b	85-90 %				
	c	30-40 %	d	50-60 %				
28	Trans	sverse ventral presentation is most commo	nly ob	served in the	()		
	a	Cow	b	Dog				
	c	Mare	d	None of the above				
29	Relat	ion between dorsum of fetus to maternal q	uadrar	nts is termed as	()		

	a	Presentation	b	Position			
	c	Posture	d	None of the above			
30	Which of the following bones form the posterior part of pelvic floor						
	a	Ilium and pubis	b	Hook bone			
	c	Ischium	d	Tuber sacrale			
31		omplication of rather diffuse bleeding occurrus after incising during cesarean section occurr	_	om the submucosal area of the	()	
	a.	Bovine	b.	Feline			
32	The	new born free martin can be characterized b	у		()	
	a	Small vulval lips and lack of vaginal patency	b	Lack of vaginal patency and prominent clitoris			
	c	Lack of clitoris and lack of vaginal patency	d	Prominent clitoris and small vulval lips			
33	Twi	nning in mare almost leads to			()	
	a	Early embryo resorption	b	Late abortion			
	c	Early abortion	d	All			
34	Cerv	vico vaginal proalpse is rarely occur in			()	
	a	Bitch	b	Mare			
	c	Both a and b	d	None			
35	Whi	ch of the following statement is not correct f	or ute	erine torsion	()	
	a	Pre cervical torsion is not common than post cervical torison	b	Torsion occurs in early gestation			
	c	Left side of torsion is not common than right side	d	All			
36	The	second and third stage of labor is merged in			()	
	a	Monotocus animals	b	Polyestrous animals			

	c	Polytocus animals	d	Pluriparous animals		
37	Tra	nsuterine Migration of conceptus is noticed in	ı	species	()
	a	Bovine	b	Equine		
	c	Caprine	d	Ovine		
38	Feta	al reflex for breech presentation is			()
	a	Pedal	b	Anal		
	c	Palpebral	d	Suckling		
39	Rin	g womb condition is commonly found in		\rightarrow	()
	a	Bovine	b	Swine		
	c	Ovine	d	Equine		
40	Chr wal	ronic inflammation of the uterus characterized	l by fi	brotic changes in the uterine	()
	a	Puerperal metritis	b	Septic metritis		
	c	Selerotic metritis	d	Parametritis		
41	Foo	ot nape indicates			()
	a	Transverse Dorsal	b	Posterior Longitudinal		
	c	Ant Long. Limb over neck	d	Transverse ventral		
42	info		nmon	bacteria found in genital	()
		ections in horses.	L	Chambrila as asses summer		
	a	St. genitalium	b	Staphylococcus aurues		
10	c	Pseudomonas	d	Leptospira	,	
43		ng existing extra-uterine fetuses become quite cium laid down in the capsule is called as	firm	and encapsulated with	()
	a	Lithopedians	b	superfecundation		
	c	Superfetation	d	Fetal mummy		

44	Which of the following instrument/s is used for Fetotomy						
	a	Gunther's knife	b	Thygesen's embryotome			
	c	Concealed palm knife	d	All the above			
45	The	drug of choice for induction of parturition in	n equi	ne is	()	
	a	Clenbuterol	b	Oxytocin			
	c	Progesterone	d	Valathamide			
46	Feta	l cortisol stimulates the conversion of p	rogest	terone in to estrogen during	()	
	parti	urition by activating the enzyme					
	a	Phopholipase	b	Lipase			
	b	17- alpha hydroxylase	d	None of the above			
47	The	pregnancy in canines can be terminated by	using		()	
	a	Prolactin	b	Folligon			
	c	Mifipristone	d	LH			
48		is a beta adrenergic stimulant	used t	o delay parturition in cows	()	
	a	Progesterone	b	Estrogen			
	c	Isoxysuprine	d	All the above			
49	Foal	heat occurs at days after foal	ing		()	
	a	2-4	b	5-12			
	c	15-20	d	35-38			
50	Dec	line in temperature before parturition hormone	n is	related with decline in	()	
	a	Relaxin	b	PGF2 alpha			
	c	Progesterone	d	oxytocin			
51	Atre	esia ani is seen in all domestic animals but m	ost co	ommonly seen in	()	
	a	Cow	b	Cat			

	c	Pig	d	None of the above			
	c	a only	d.	both a and b			
53	The following one which is not used for correction of uterine torsion						
	a.	Cornell detorsion rod	b.	Commerer's torsion fork			
	c.	Erikson's rotator	d.	Whilliam's crutch repeller			
54	Prim	ary uterine inertia is seen most often in		and rarely in	()	
	a	Dog, Mare	b.	Cow, sow			
	c.	Mare, cow	d.	Cow , Dog			
55	Mate	ernal causes of dystocia includes			()	
	a	Fractures and exostoses of pelvis	b.	Stunning of body growth			
56	Fetal ascites is seen as an occasional cause for dystocia in any species but occurs most offen in the						
	a	Cow	b	Cat			
	c.	Pig	d	None of the above			
57		ocia due to fetal embphysema is observed a prolonged dystocia of		ies and is usually associated rs of duration.	()	
	a	12 to 18 hours	b	24 to 48 hours			
	c.	14 to 36 hours	d	12 to 24 hours			
58	Uteri	ine or vaginal rupture may occur due to			()	
	a	Improper manipulation	b.	Fatigue of the operator			
	c.	Protruding bones of the fetus	d.	All the above			
	a	Mare	b.	Dog			
	c.	Cow	d.	Cat			
	С.	2011	۵.				

	a	Anemia	b.	Hemoglobinuria			
	c	Hemoglobinemia	d.	All the above			
61	The presence of a dark green vulvar discharge more than hours after parturition is a symptom of retention of fetal membranes in dog.						
	a.	12 hours	b	24 hours			
	c.	48 hours	d	72 hours			
62	Pue	erperal laminitis is most likely to occur in			()	
	a.	Mare	b.	Dog			
	c.	Cow	d.	Cat			
63	Cor bree	mprest or bull dog calves are seen in all bree	ds but	most commonly in the	()	
	a	Hereford	b	Ayrshire			
	c	Angus	d	All the above			
64	Tru	e hermaphrodites is most frequently seen in			()	
	a	Cattle	b	Sheep			
	a	Cattle	b	Sheep			
	c	Goat	d	Horse			
66	vert	is seen occasionally in cattle and swine and tebrae and spinal cord caudal to the thoracic			()	
	a	Schistosomus reflexus	b	Perosomus elumbis			
	c	Perosomus horridus	d	Campylorrachis scoliosa			
67	Nor	ngenetic anomalies similar to genetic anomal	ies are	e called as	()	
	a	Phenocopies	b	Teratogens			
	c	Monster	d	None of the above			
68		agination of the uterine horn is occasionally occurs only rarely in other species	noted	in the and	()	

	a	Cow and Ewe	b	Swine and Sheep			
	c	Cow and Mare	d	Dog and Cat			
69	In o	case of vulvar sutures are used for uterine pro	olapse	should be removed in	()	
	a	12 hours	b	24 hours			
	c	48 hours	d	72 hours			
70		mare rupture of the uterus is common in gnancy if traction is applied		in rotated bicornual	()	
	a	Mare	b.	Dog			
	c	Cow	d.	Cat			
71	Subinvolution of the placental sites should be differentiated from the following						
	a.	Cystitis	b.	Uterine or ovarian tumors			
	c.	Cystic endometrial hyperplasia	d.	All the above			
72	Dystocia due to transverse ventral presentation is most commonly observed in						
	•			·	(,	
	a.	Mare	b.	Dog	(,	
		Mare Cow			(,	
	a.		b.	Dog		,	
	a. c.	Cow	b. d.	Dog Cat		,	
74	a. c. a c	Cow 12 to 18 hours	b. d. b d	Dog Cat 5 to 10 hours None of the above	()	
74	a. c. a c	Cow 12 to 18 hours 24 to 36 hours stocia due to mosters or to disproportion between	b. d. b d	Dog Cat 5 to 10 hours None of the above	()	
74	a. c. a c Dysis r	Cow 12 to 18 hours 24 to 36 hours stocia due to mosters or to disproportion betware in	b. d. b d	Dog Cat 5 to 10 hours None of the above Setal size and pelvic diameter	()	
74 75	a. c. a c Dyr is r a c	Cow 12 to 18 hours 24 to 36 hours stocia due to mosters or to disproportion betware in Cow Ewe mare dystocia is due to	b. d. b d ween f	Dog Cat 5 to 10 hours None of the above Setal size and pelvic diameter Mare	()	
	a. c. a c Dysis r a c	Cow 12 to 18 hours 24 to 36 hours stocia due to mosters or to disproportion betware in Cow Ewe mare dystocia is due to	b. d. b d ween f	Dog Cat 5 to 10 hours None of the above Tetal size and pelvic diameter Mare Dog	()	

76	The incidence of the dystocia in posterior presentation of the fetus in unipara is						
	a	Low	b	Moderate			
	c	High	d	Absent			
77	Epic	dural anesthesia in sows can be given in			()	
	a	Lumbosacral space	b	Sacrococcygeal space			
	c	Thoracolumbar space	d	None of the above			
78	The	most common sequelae of hydrallantois are			()	
	a	Retained placenta and incomplete cervical dilatation	b	Septic metritis and anomalous fetus			
	c	a. Cervicitis and salphingitis	d	Septic metritis and retained placenta			
79	Plac	centophagy is commonly noticed in			()	
	a	Cow	b	Dog			
	c	Mare	d	None of the above			
80		itches, The post partum lochia is green in coleroverdin" which is a break down product of		ue to the pigment	()	
	a	Haemoglobin	b	urea			
	c	Myoglobin	d	None of the above			
81		h feeding levels may favour dystocia, especia osition of fat in the	ally in	heifers by excessive	()	
	a.	Abdominal region	b.	Pelvic region			
	c.	Uterine horn	d.	Genitalia			
82		nual removal of the placenta is contraindicate perature above	ed in c	ows with elevated body	()	
	a.	101 degree F	b.	103 degree F			
	c.	102 degree F	d.	Not contraindicated			

83	"W	axing of teat"is observed In			()
	a	Mare	b	Cow		
	c	Bitch	d	Ewe		
84	Sec	condary uterine inertia that is seen in all spec	eies is	the result of	()
	a	Hormonal imbalance	b	Nutritional deficiency		
	c	Exhaustion of uterine muscle	d	Fetal oversize		
85		birth what is the approximate percentage of ture weight	birth v	weight of foal in relation to the	()
	a	4 per cent	b	6 per cent		
	c	9 per cent	d	less than 2 per cent		
86	The	e advantages of fetotomy is			()
	a	It reduces the size of the fetus	b	It avoids cesarean operation		
	c	It may cause injury to the uterus or birth canal	d	Both a and b		
87	Tru	ue fetal gigantism is seen mostly commonly	in		()
	a	Mare	b	Bitch		
	c	Cow	d	Sow		
88		e umbilical cord being wrapped around a p stocia?	ortion	or extremity of fetus leads to	()
	a	Does not occurs in domestic animals	b	Frequently causes dystocia		
	c	Frequently occurs in domestic animals	d	None of the above		
89	Ba	ndl's contraction rings are seen in		uterine inertia	()
	a	Secondary	b	Late		
	c	Early	d	Primary		

90	Amorphus globosus was an imperfect zygote of dizygotic twins commonly seen in						
	a	Cow	b	Cat			
	c	Dog	d	None of the above			
91	Сус	clopia is most commonly seen in			()	
	a.	Cow	b	Cat			
	c.	Pig and sheep	d	None of the above			
92		sopresin exhibits about 20 per cent of the mi	lk ejec	tion activity of oxytocin	()	
	a.	30 to 45 mm of mercury	b.	5 to 15 mm of mercury			
	c.	60 to 75 mm of mercury	d.	None of the above			
93	Ketosis or acetonemia in cattle is rarely observed during						
	a	Prior to parturition	b	10 to 60 days after parturition			
	c	7 to 10 days after parturition	d	None of the above			
94	Hypocalcemia or hypomegnesemia is a metabolic disease of dairy cattle especially those animals which are in						
	a	Advanced pregnancy and fed with early wheat pastures	b	Transported and or under stress			
	c	Lactating heavily and Grazing on lush	d	All the above			
95	In p	physiological parturition the afterbirth of the	cow f	alls away within	()	
	a	3 to 8 hours	b	24 to 48 hours			
	c	8 to 12 hours	d	12 to 24 hours			
96	The	e following is the not the causative factor for	retain	ed placental membrane in	()	
	a	Excess cortisol in late gestation	b	Uterine inertia			
	c	Progesterone deficiency in late gestation	d	Excess amount of LH hormone			

97	Retained placental membrane is uncommon except in					
	a	Sow	b	Cat		
	c	Bitch	d	Cow		
98	A p	ersistent urachus is seen most commonly in t	he ne	w born of	(>
	a	Mare	b	Cow		
	c	Cat	d	Dog		
c Cat d Dog 99 Copper deficiency in new born animals causing the following like	(,				
	c	Locomotor incoordination	d	All the above		
100		ema of the tongue of the new born fetus is consentation is due to	mmon	in calves in anterior	(,
	a	head protruding through the vulva for long time	b	Intra pelvic pressure due to narrow pelvis		
	c	Edema of the forelimbs	d	All the above		

Key answers

Question	Answer	Question	Answer	Question	Answer	Question	Answer
No.		No.		No.		No.	
1	С	26	a	51	С	76	С
2	b	27	a	52	b	77	a
3	c	28	c	53	d	78	d
4	d	29	b	54	a	79	b
5	d	30	c	55	d	80	a
6	c	31	d	56	a	81	b
7	a	32	b	57	b	82	b
8	c	33	a	58	d	83	a
9	a	34	b	59	a	84	С
10	a	35	b	60	d	85	С
11	d	36	c	61	a	86	d
12	a	37	b	62	a	87	С
13	a	38	b	63	d	88	a
14	d	39	c	64	d	89	a
15	d	40	c	65	c	90	a
16	a	41	c	66	b	91	С
17	d	42	a	67	a	92	a
18	d	43	a	68	c	93	a
19	a	44	d	69	b	94	d
20	b	45	b	70	a	95	a
21	d	46	b	71	d	96	d
22	a	47	c	72	a	97	d
23	d	48	С	73	С	98	a
24	c	49	b	74	b	99	d
25	d	50	c	75	b	100	d

Veterinary Andrology and Artificial Insemination

1.	The length of epididymal tube in bull is						
	a. 20 meters	b. 30 meters					
	c. 40 meters	d. 50 meters					
2.	Scrotum is absent in		()			
	a. Elephant	b. Rhinoceros					
	c. Birds	d. All of the above					
3.	In pig, testicular descent into scrotum occu	irs at	()			
	a 2 months	b 3 months					
	c 4 months	d 5 months					
4.	Daily sperm production for a bull with test	tes weighing about 400 gms each is	()			
	a 7 billion	b 10 billion					
	c 12 billion	d 15 billion					
5.	Number of spermatozoa formed from one type A spermatogonia is						
	a 4	b 16					
	c 32	d 64					
6.	Blood pressure in the corpus cavernosum penis at the time of erection in bull is						
	a 170 mm of Hg	b 270 mm of Hg					
	c 1700 mm of Hg	d 2700 mm of Hg					
7.	Ergothionine present in stallion semen is so	ecreted from	()			
	a Ampulla	b Prostate gland					
	c Seminal vesicle	d Bulbourethral gland					
8.	High level of inositol is present in the seme	en of which of the following species	()			
	a Bull	b Ram					
	c Stallion	d Boar					
9.	Sticky, gelatinous, tapioca like material pre	esent in the boar semen is secreted from	()			
	a Ampulla	b Prostate gland					
	c Seminal vesicle	d Bulbourethral gland					
10.	The vices of ejaculation by inserting penis	into the preputial diverticulum is seen in	()			
	a Ram	b Stallion					
	c Bull	d Boar					

11.	Osmotic pressure of semen ranges from			()
	a 280 to 300 milli osmol	b 100 to	120 milli osmol		
	c 10 to 50 milli osmol	d None	of the above		
12.	Major storage site for spermatozoa is			()
	a Caput epididymis	b Corpu	ıs epididymis		
	c Cauda epididymis	d Ampu	ılla		
13.	Os penis is present in			()
	a Dog	b Foxes			
	c Raccoons	d (All of	the above		
14.	Duration of the cycle of seminiferous ep	ithelium in ram is		()
	a 9 days	b 10 day	ys		
	c 12 days	d 14 day	ys		
15.	Duration of copulation is longest in which	ch of the following spe	ecies	()
	a Cattle	b Horse	:		
	c Sheep	d Pig			
16.	Licking of penis after ejaculation as a po	st coital behavior is fo	ound in	()
	a Bull	b Ram			
	c Buck	d Stallic	on		
17.	In stallion, the maximum number of ejac	ulations to exhaustion	are	()
	a 10	b 15			
	c 20	d 25			
18.	Flehman's reaction to estrus female urin	e is absent in		()
	a Cattle	b sheep			
	c Horse	d Pig			
19.	Inability to withdraw the penis into the p	repuce is called as		()
	a Phimosis	b Parapl	himosis		
	c Phallocampsis	d None	of the above		
20.	The percent of sodium citrate dehydrate	added in egg yolk citra	ate diluents is	()
	a 1.5 %	b 2.9 %		,	
	c 3.5 %	d 4.1 %			

21.	Speri	miostasis due to aberrant efferent or epidio	dymal tub	oules is commonly seen in	()
	a	Bull	b	Ram		
	c	Buck	d	Boar		
22.	The s	surface area of French mini straw is			()
	a	555 mm ²	b.	823 mm ²		
	c	950 mm ²	d.	1152 mm ²		
23.	Good	d quality semen sample reduces methylene	e blue in		()
	a.	3 – 5 minutes	b.	6 – 9 minutes		
	c.	10 – 15 minutes	d.	16 – 20 minutes		
24.	Whice seme	ch of the following extender is used for room	om tempe	erature preservation of bull	()
	a	Coconut milk extender	b.	Tris egg yolk extender		
	c.	Egg yolk citrate extender	d.	Egg yolk phosphate extender		
25.	Mini horse	mum concentration of spermatozoa requir	red for on	e dose of frozen semen in	()
	a	200 million	b.	500 million		
	c.	1500 million	d.	5000 million		
26.	Com	mon type of tumor of penis in bulls			()
	a	TVT	b.	Teratoma		
	c.	Transmissible fibropappiloma	d.	Squamous cell carcinoma		
		1				
27.	Medi	astinum testis is absent in which of the fo	llowing s	pecies	()
	a	Bull	b.	Ram		
	c.	Stallion	d.	Boar		
28.	Sigm	oid flexure is prescrotal in			()
	a	Bull	b.	Ram		
	c.	Boar	d.	Stallion		
29.	Vasc	ular type of penis is present in			()
	a.	Bull	b.	Ram		
	c.	Boar	d.	Stallion		
30.	Erect	tiion of penis is brought about by action of	f the mus	cle	()
	a.	Bulbocavernous	b.	Ischiocavernous		

	c. Retractor penis muscle	d.	Urethral muscle		
31.	Internal reproductive organs of animals are dev			()
	a Ectoderm	b	Mesoderm		
	c Endoderm	d	All of the above		
32.	Embryological structure which forms the glans a Urogenital sinus	s penis ii b	n male and clitoris in female is Genital tubercle	()
	c Mesonephric tubule	d	None of the above		
33.	Which of the following agent produced by feta	ıl testes	causes differentiation and	()
	development of male reproductive tract a Fetal androgen	b	Mullerian Inhibiting Substance		
	c Both	d	None of the above		
34.	Pampiniform plexus is formed by			()
	a Testicular artery	b	Testicular vein		
	c External pudendal artery	d	None of the above		
35.	Shape of ruminant testis			()
	a Round	b	Oval	`	,
	c Spherical	d	Elliptical		
36.	Sertoli cells secrete			()
50.	a Inhibin	b	Androgen Binding Protein	(,
	c Estrogen	d	All of the above		
37.	Accentrically placed thickening of the acroson	na is kno	awn ac	(`
37.	a Diadem defect	ie is kiid b	Acrosome cap	()
	c Knobbed acrosome	d	Pseudodroplet defect		
			•		
38.	Test used to know the functional integrity of sp	•		()
	a Cervical Mucus Penetration Test	b	Hypo Osmotic Swelling Test		
	c Hamster Egg Penetration Test	d	High Temperature Viability Test		
39.	The length of seminiferous tubule in bull is			()
57.	a 4000 meters	b	5000 meters	(,
	c 6000 meters	d	7000 meters		
40	Only accessory sex gland present in dog			()
	a Seminal vesicle	b	Bulbourethral gland		
	c Prostate gland	d	Epididymis		
41	Scrotal ligament is absent in			()
	a Bull	b	Stallion		,
	c Boar	d	Ram		

42	Uretheral process is present in the penis of a Bull	b	Stallion	()
	c Ram	d	Boar		
43	The prostate gland is heart shaped in			()
	a Bull	b	Ram		
	c Stallion	d	Boar		
14	Testosterone is converted to dihydrotestosterone	by an	enzyme known as	()
	a Aromatase	b	17 α Hydroxylase		
	c 5 α reductase	d	5 keto reductase		
45	The following cells of the testis are highly sensiti	ve to	irradiation	()
	a Spematocytes	b	Leydig cells		
	c Myoid cells	d	Sertoli cells		
46	Sequence of male sexual behavior in bull is			()
	a Courtship to dismounting	b	Sexual arousal to dismounting		
	c Courtship to refractoriness	d	Sexual arousal to refractoriness		
47	Courting grunts is observed in			()
	a Bull	b	Stallion		
	c Ram	d	Boar		
48	In which of the following species, flagging move ejaculation	ment	of tail is exhibited after	()
	a Bovine	b	Ovine		
	c Swine	d	Equine		
1 9	Inability to protrude the penis outside the prepuce	e is ca	alled as	()
	a Phimosis	b	Paraphimosis		
	c Phallocampsis	d	Priapism		
50	Inflammation of the glans penis and prepuce is			()
	a Balanitis	b	Gonitis		
	c Balanoposthitis	d	Penitis		
51	Volume of semen in testicular degeneration is us	ually		()
	a Normal	b	Decreased		
	c Increased	d	None of the above		
				,	
52	Total head abnormalities of bull semen samples s			()
	a 5 %	b	10 %		
	c 15 %	d	20 %		

53	Semen picture of bilateral testicular hypoplasia a Normozoospermia	b	Necrozoospermia	()
	c Aspermia	d	Azoospermia		
54	Gynaeco mastia is caused due to			()
	a Seminoma	b	Leydig cell tumor		
	c Sertoli cell tumor	d	All of the above		
55	Release of fully formed spermatozoa from Sertoli tubules is called	i cells	into lumen of seminiferous	()
	a Spermiogenesis	b	Spermiation		
	c Emission	d	Ejaculation		
56	Final concentration of glycerol in semen extender	r used	for freezing of bull semen is	()
	a 1 %	b	4 %		
	c 7 %	D	14 %		
57	Laparoscopic method of artificial insemination is	comi	monly done in	()
	a Sheep	b	Goat		
	c Pig	d	Dog		
58	Torsion of the descended testis is commonly seen	in		()
	a Bull	b	Stallion		
	c Ram	d	Buck		
59	Most reliable and commonly used seminal paramsemen in field condition is	eter i	n evaluating fertility of frozen	()
	a Post thaw motility	b	Post thaw livability		
	c post thaw acrosomal integrity	d	HOST		
60	The required number of progressive motile sperm French mini straw in cattle is	ıs dur	ing filling and sealing of	()
	a 5 millions	b	10 millions		
	c 20 millions	d	40 millions		
61.	Urethral diverticulum is present in			()
	a. Bull	b.	Ram		
	c. Stallion	d.	Boar		
62.	The body of the prostate gland is absent in			()
	a. Bull	b.	Ram		
	c. Stallion	d.	Boar		
63.	The optimum frequency of semen collection from	ı adul	t bulls in frozen semen bank is	()
	a One ejaculate twice a week	b	Two ejaculates once a week		

	c	Two ejaculates twice a week	d	Two ejaculates thrice a week		
64.	The	e preputial ring is present in			()
	a	Bull	b	Ram		
	c	Stallion	d	Boar		
65.	Ave	erage velocity of bull sperm cell is			()
	a	1.65 mm/minute	b	4.23 mm/minute		
	c	0.50 mm/minute	d	3.50 mm/minute		
66.	Asp	permia denotes			()
	a	Non volume	b	Zero sperm		
	c	Decreased sperm	d	Increased sperm		
67.	Infl	ammation of hip joint - coxitis- is seen mos	t comm	only in	()
	a	Dogs	b	Bull		
	c	Stallion	d	Buck		
68.	In r	am, Balanoposthitis is also known as			()
	a	Pizzle rot	b	Phallocampsis		
	c	Rain bow	d	Crampiness		
69.	Inci	reased concentration of sperm is termed as			()
	a	Azoospermia	b	Polyzoospermia		
	c	Teratozoospermia	d	Hyperspermia		
70.	Sen	ninal plasma is slightly alkaline in			()
	a	Bull and Ram	b	Bull and Boar		
	c	Ram and stallion	d	Boar and stallion		
71.	For	matation of primary and secondary spermate	ocyte fro	om type A spermatogonia is	()
	a	Spermatocytogenesis	b	Spermateliosis		
	c	Spermiogenesis	d	Spermeation		
72.	Noi	rmal volume of semen in boar is			()
	a	25-50 ml	b	125-500 ml		
	c	1-15 ml	d	50-75 ml		
73.	Spe	erm concentration in Ram semen is			()
	a	2000-4000 million/ml	b	800-1200 million/ml		
	c	200-400 million/ml	d	100-150 million/ml		

74.	Total length of spermatozoa of domes	tic animal is	()
	a 10-20 microns	b 20-40 microns		
	c 50-70 microns	d 75-90 microns		
75.	Reaction time has co-relation with		()
	a Sex drive	b Motility of sperm		
	c Fertility of sperm	d Concentration of sperm		
76.	Anti-agglutinin present in semen is se	creted by	()
	a Ampulla	b Seminal vesicle		
	c Prostate gland	d Cowper's gland		
77.	An animal in which pheromones are s	ecreted in saliva	()
	a Bull	b Stallion		,
	c Boar	d Ram		
78.	Static / zero ejaculates are common in		()
70.	a Bull	b Buffalo bull	(,
	c Stallion	d Boar		
79.	Prostitis is common in	d Boar	()
17.	a Bull	b Boar	(,
	c Stallion	d Dog		
80.	Pederasty or rectal copulation as a vic	· ·	()
00.	a Bull	b Boar	(,
	c Stallion	d Buck		
81.	An example of impotentia coeundi	d Buck	()
01.	a Rainbow penis	b Testicular hypoplasia	(,
	c Seminal vesiculitis	d Orchitis		
82.	Epididymal sperm transit period in bu		()
02.	a 10 days	b. 13 days	(,
	c 15 days	d. 17 days		
83.	The terminal part of penis contains se	·	()
55.	a. Dog	b. Ram	•	,
	c. Cat	d. Boar		

84.	Volume of French medium stra	w is ()
	a 0.25 ml	b. 0.50 ml	
	c. 0.75 ml	d. 1.00 ml	
85.	The tight coiling of tail over m	d piece of the sperm is termed as ()
	a Diadem defect	b. Cork screw	
	c. Knobbed sperm	d. Dag defect	
86.	Stretching of head and neck as	post coital reaction is seen ()
	a Bull	b. Ram	
	c. Buck	d. Stallion	
87.	A nuclear sperm defect is	()
	a Diadem defect	b. Cork screw defect	
	c. Knobbed sperm defect	d. Dag defect	
88.	A reversible testicular disorder)
	a Hypoplasia	b. Fibrosis	
	c. Atrophy	d. Degeneration	
89.	Veneral bacterial disease in wh	ich the bull act as symptomless carrier ()
	a. Trichomoniasis	b. Vibriosis	
	c. Brucellosis	d. All of the above	
90.	Temperature of thawing media	for frozen semen ()
	a. 37°c	b. 50°c	
	c. 25°c	d. 45°c	
91.	Dribblings in bull, before atter	npting a mount are secretions from (()
	a. Vesicular glands	b. Cowper's gland	
	c. Prostate gland	d. Ampulla	
92.	The most common testicular tu	mor in dog (()
	a. Sertoli cell tumor	b. Interstitial cell tumors	
	c. Seminoma	d. Melanoma	
93.	Active principle in egg yolk, w	hich acts as an cryoprotective agent is ()
	a Phosphorus	b Calcium	
	c Lecithin	d Vitamins	

94.	Dui	ring A.I. with frozen semen, the most appropria	ite si	te for semen deposition is	()
	a	Anterior Vagina	b	Mid cervix		
	c	Body of the uterus	d	Uterine horn		
95.	Opt	imum time for Artificial Insemination in cow i	s abo	out	()
	a	Before onset of estrum	b	Early to mid estrum		
	c	Mid to late estrum	d	After the end of the estrum		
96.	Orc	hitis is the inflammation of			()
	a	Ovaries	b	Joints		
	c	Testes	d	Penis		
97.	Scr	otal circumference reflects			()
	a	Body weight	b	Capacity for sperm production		
	c	Thermoregulation	d	Hormone production		
98.	In i	mpotentia generandi disorder of bulls, which o	f the	following condition is not true	()
	a	No sex drive	b	Low fertile		
	c	Testicular degeneration	d	Epididymitis		
99.	Wh	ich of the following extender is commonly use	d for	freezing of bull semen	()
	a	Tris yolk glycerol extender	b	Coconut milk extender		
	c	Caprogen	d	Cornell University extender		
100.	The	conception rate of cattle in India by AI is about	ıt		()
	a	40%	b	70%		
	c	10%	d	80%		

Answer key

Question	Answer	Question	Answer	Question	Answer	Question	Answer
No.		No.		No.		No.	
1	b	26	С	51	a	76	С
2	d	27	С	52	a	77	С
3	b	28	С	53	d	78	b
4	С	29	d	54	С	79	d
5	d	30	b	55	b	80	b
6	С	31	b	56	c	81	a
7	a	32	b	57	a	82	a
8	d	33	С	58	b	83	С
9	d	34	b	59	a	84	b
10	d	35	b	60	c	85	d
11	a	36	d	61	c	86	b
12	c	37	С	62	b	87	a
13	d	38	b	63	С	88	d
14	b	39	b	64	c	89	b
15	d	40	c	65	b	90	a
16	c	41	a	66	a	91	b
17	c	42	c	67	a	92	b
18	d	43	d	68	a	93	c
19	b	44	c	69	b	94	c
20	b	45	a	70	d	95	c
21	С	46	d	71	a	96	С
22	b	47	d	72	b	97	b
23	a	48	d	73	a	98	a
24	a	49	a	74	С	99	a
25	c	50	c	75	a	100	a

VETERINARY MICROBIOLOGY

Veterinary Virology

1.	FMD viru	is serotypes in India are		
	a	O, A and C	c	O, A, C, Asia1
	b	O, A and Asia1	d	O, A and SAT
2.	EDS viru	s belongs to the genus		
	a	Aviadenovirus	c	Siadenovirus
	b	Adenovirus	d	Atadenovirus
3.	Ephemera	al fever is also known as		
	a	3-day fever	c	both a and b
	b	Stiff sickness	d	none of the above
4.	Severe vo	mition, grey foul-smelling dia	rrhea and ga	stro enteritis in pups are
	characteri			
	a	Parvo virus infection	c	Infectious canine hepatitis
	b	Canine distemper	d	Rabies
5.	Rabies vi	rus belongs to the genus		
	a	Vesiculovirus	c	Adenovirus
	b	Lyssavirus	d	Novirhabdovirus
6.	New castl	e Disease virus can be isolated	l in embryon	ated chicken eggs by which
		noclulation		
	a	CAM	c	yolk sac
	b	amniotic	d	allantoic
7.	Pump har	dle respiration is a typical clin	ical sign obs	served in
	a	Infectious larygotracheitis	c	Infectious bronchitis
	b	Avian influenza	d	New castle Disease
8.	Herpes vi	rus of turkey is used as a vacci	ne for	
	a	Marek's disease	c	IBR
	b	ILT	d	none of the above
9.	Swine fev	ver virus can be propagated in		
	a	MDBK	c	primary pig kidney cells
	b	Vero	d	primary calf kidney cells
10.	. Big liver	disease is caused in		
	a	ILT	c	Avian leucosis complex
	b	MD	d	ND
11.	. Equine er	cephalitis virus belongs to the	family	
	a	Birnaviridae	c	Flaviviridae
	b	Togaviridae	d	Calciviridae
12.	. The follo	wing virus families have segme	ented genom	e
	a	Reoviridae	c	Bunyaviridae
	b	Birnaviridae	d	All the above
13.	. The follo	wing viruses are neurotrophic	viruses	
	a	Rabies virus	c	Both a & b
	b	Aujeszky's disease virus	d	None of the above

14 'nol' gene	e in retroviruses encode for		
a a	Reverse transcriptase	c	Both a & b
b	Integrase	d	None of the above
	wing cytopathic effects are seen	in the PPI	
a	Acidophilic intracytoplasmic	c	Inclusion bodies both in
	inclusion body formation		cytoplasm & in nucleus
b	Syncytial formation	d	All the above
16. Persistent	infection is seen in		
a	Equine infectious anaemia	c	Rinderpest
b	Maedi-visna	d	a & b only
17. Viruses h	aving herring bone appearance o	f ribonucl	eoprotein
a	African horse sickness	c	Equine infectious anaemia
b	Equine influenza	d	None of the above
18. Lentogen	ic strain of Newcastle disease vii	rus	
a	komorow	c	Hertz
b	Milano	d	LaSota
19. An exam _l	ple of cubical symmetry virus		
a	Orthomyxoviridae	c	Paramyxoviridae
b	Rhabdoviridae	d	Picorna viridae
20. Hard pad	disease is caused by		
a	Morbilivirus	c	Parvovirus
ь	Adenovirus	d	rotavirus
21. Which of	the following is the smallest virg	us?	
a	Coronaviridae	c	Toraviridae
Ь	Arteriviridae	d	Circoviridae
	the following is not antigenically	=	
a	Rinderpest	c	Mumps
b	Canine distemper virus	d	Measles
	infection corneal opacity in dogs		
a	Canine distemper	С	Canine parvovirus
b	Rabies	d d	Infectious canine hepatitis
	the following is the vaccine stra		
a	Mukteswar strain	c	Massachusette strain
b	LaSota	d	R2B
	the following is the biological v	ector in tr	ansmission of African swine
fever?	C. P. of Loren		Dadh a sudd
a	Culicoides sp.	C	Both a and b
b	Ornithodorus sp.	d	None of the above
26. Miliker S	nodule is caused by		.
a	Capripox	c	Parapox
b	Cowpox	d	Suipox
27. Predilecti	on site for parvovirus is		
a	Bone marrow	c	Enteric epithelium
b	Foetus	d	All the above

28. Cup shaped depressions are seen in the surface of

Calcivirus Picorna virus Togavirus Parvovirus b d

29. Antigenic shift is more common in

Orthomyxo viruses Bunya viruses a c b Arena viruses d All the above

30. The following poxviruses are antigenically related except

Sheep pox Cowpox Lumpy skin disease virus Goat pox d b

ANSWER KEYS

1.	c	13.a	25.b
2.	d	14.a	26.b
3.	a	15.b	27.c
4.	b	16.c	28.a
5.	b	17.d	29.a
6.	b	18.c	30.b
7.	a	19.a	
8.	a	20.a	
9.	c	21.d	
10.	c	22.a	
11.	c	23.d	
12.	d	24.c	

General Veterinary Microbiology and Immunology

- 1. The largest immunoglobulin molecule
 - a) Ig E b) Ig D c) Ig M d) Ig A
 - 2. The bacteria which grow best at temperature 70°C is called as
 - a) Mesophiles b) Thermophiles c) Hyperthermophiles d) Halophiles
 - 3. The bacteria require low level of oxygen for growth is known as
 - a) Aerobes
- b) Anaerobes c) Microaerophiles d) Obligate anaerobes
- 4. Who discovered first antibiotic penicillin
 - a) Ignaz Semmelweis b) Alexander Fleming c) Paul Ehrlich d) Gerd Binnig
- 5. Cells divide in one plane and remain attached predominantly in pairs.
 - a) Tetracocci b) Diplococci c) Streptococci d) Gerd Binnig
- 6. Cells are lined up side by side like match sticks and at angles to one another
 - a) Streptobacilli b) Trichomes c) Palisade d) Diplobacilli
- 7. Bacteria with less than one complete twist or turn are called
 - a) Spirochetes b) Mycelia
- c) Spirilla d) vibrioid
- 8. Endospores can be stained by
 - a) Schaffer-Fulton stain b) grams stain c) Acid fast stain d) None
- 9. Which bacterial growth phase the cells are dividing regularly by binary fission and cell numbers increase in geometric progression.
 - a) Lag Phase b) log phase c) Stationary phased) Decline Phase
- 10. Bacteria that require low level (5-10%) carbon dioxide for growth.
 - a) Aerobic b) Anaerobic c) Microaerophilic d) Capinophilic
- 11. Salt loving bacteria are called
 - a) Acidophiles b) osmophile c) Halophile d) xerophile
- 12. Bacteria that that utilise light as energy source
 - a) chemotrophs b) chemolithotrophs c) phototroph d) chemoorganotrophs
- 13. The total energy yield from complete oxidation of glucose is
 - a) 24 ATP b) 38 ATP c) 18 ATP d) 6 ATP

14. The media contains agar at a concentration of 0.2-0.5 percent is calleda) Liquid mediab) Solid mediac) Semisolid mediad) None
15. An epidemic disease condition affecting a large geographical area or often on a global scalea) Epidemicb) Endemic c) Sporadicd) Pandemic
16. The organism lives on the host without causing any disease.a) Saprophytis b) Commensalism c) Symbiosis d) Parasitism
17. Presence of toxins in blood
a) Bacteraemia b) Septicaemia c) Toxaemia d) Anemia
18. The percentage of Peptidoglycan in gram positive bacterial cell wall
a) 80% b) 10% c) 20% d) 5%
19. Mutations involving one or very few base pairsa) Point mutation b) missense mutation c) nonsense mutationd) silent mutation
20. Transfer of genetic material from one bacterium to another with a help of bacteriophage (Bacterial virus) is known as a) Recombination b) Transformation c) Transduction d) Conjugation
21. The media used for isolation of fungi area) Malt agarb) Potato dextrose agarc) Sabouraud's dextrose agar d) All the above
22. Wood lamp uses which rays for identification of fungus in the hair a) IR rays b) UV rays c) Both a and b d) None
23. Bacteria are measured in terms of a) Millimeter b) Meter c) Micrometer d) Nanometer
24. Virus structure can be studied bya) Light microscope b) Electron microscope c) Fluorescent microscope d) None
25. The movement of bacteria directed towards or away from chemical compounds are known asa) Phototaxisb) Chemotaxisc) Magnetotaxisd) All the above
26. The protein coat that covers the nucleic acid of the infectious virus particle is known asa) Virion b) Viriod c) Capsomere d) Capsid

- 27. Plasmids that contain genes that code for antibiotic resistance.
 - a) Colicinogenic factors b) Fertility factor c) Resistance factor d) None
 - 28. The specialized convoluted invagination of the cytoplasmic membrane and is more prominent in Gram-negative bacteria.
 - a) Ribosomes b) Mesosomes c) Magnetosomes d) Nucleosome
 - 29. The enzyme involved in replication of bacterial DNA is/are
 - a) DNA polymerase b) DNA helicase c) Both a and b d) None
 - 30. The ability of viruses to agglutinate RBC is known as
 - a) Haemagglutination b) Haemadsorption c) Haemolysis d) Haemoptysis

ANSWER KEYS

1.	c	13.a	25.b	
2.	b	14.b	26.d	
3.	c	15.d	27.c	
4.	b	16.b	28.b	
5.	b	17.c	29.a	
6.	С	18.a	30.b	
7.	c	19.b		
8.	a	20.d		
9.	b	21.c		
10.	d	22.b		
11.	c	23.c		
12.	c	24.b		

General Veterinary Microbiology and Immunology

1. Club colony formation is seen in	n
a. Botyromycosis	b. Arcanobacterium pyogenes
c. Actinomyces bovis	d. Both a and b
2. Exudative epidemitis of pig is c	aused by
a. S.aureus	b. S.hyicus
c. S.intermedius	d. S.epidermitidis
3. For decontamination of specime	en to eliminate fast growing bacteria to isolate
M.bovis	
a. 2-4 % sodium hydroxide	b. 1% Sodium carbonate
c. 3% phenol	d. 2.5% glutaraldehyde
4. Ascoli test is used to diagnose	
a. Anthrax	b. Brucellosis
c. Mastitis	d. Wingrot
5. Swarming of agar plates is by	
a. Proteus spp	b. Staphylococcus spp
c. Streptococcus spp	d. <i>E.coli</i>
6. Candida albicans is the causativ	re agent for
a. Thrush	b. Woolsorters disease
c. Ringworm psoriasis	d. Weils disease
7. Bipolar appearance of organism	as is specific for
a. Pasteuralla spp	b. Brucella spp
c. <i>E.coli</i>	d. Mycobacterium spp
8. The zebra markings in large in	testine of affected animals are noticed in
a. Johne's disease	b. SMEDI d. FMD

9. Myocarditis in young calves noticed in a. FMD	b .Blue Tongue
c. Tuberculosis	d. Calf scour
10. The media used for isolation of fungi ara) Malt agarc) Sabouraud's dextrose agar	re b) Potato dextrose agar d) All the above
11.Living together of two or more species benefit is called as a) Commensals b) Symbiosis	of organisms for mutual c) Antibiosis d) Parasitism
12. Rhizoids are root like structures in fun	
13. Fungal media should have the following than bacterial growth(a) Medium sugar with neutral pH(c) Low sugar with acidic pH	ng properties to promote the fungal growth (b) High sugar with alkali pH (d) High sugar with acidic pH
14. Hjarre's disease in poultry is caused by (a) <i>Salmonella pullorum</i> (b) <i>E.coli</i> (c)	oy Pseudomonas d) Salmonella gallinarum
15. Lumpy jaw in cattle is caused by (a) Actinobacillus lignieresi (b) Actino (d) E.coli	omyces bovis (c) Salmonella
16. Clostridium perfringens type D in lam (a) Pulpy kidney disease (b) Lamsiekte	
17. Chinese letter or Cuneiform arrangeme (a) Cryptococcus (b) Pseudomonas (c)	
18. Shiga like toxins cause a disease in pig (a) Diamond skin disease (b) Odema dis	gs called sease (c) Dysentery (d) Pulpy kidney disease
19. Biovin antigen of Salmonella is called (a) H antigen (b) Vi antigen (c) O antige 20. Among the following which one is nor (a) E.coli (b) Cl.tetani (c) Cl.pe	en d) F antigen n capsulated and motile
21. Which among the following is lactose (a) Citrobacter (b) Enterobacter aerogen	

- 22. Among the following which is coagulase producing organism?
- (a) Streptococcus (b) Enterococcus (c) Staphylococcus (d) Micrococcus
- 23. Among the following which one is string test positive and non-motile?
- (a) E.coli (b) Klebsiella (c) Enterobacter aerogenes (d) Proteus
- 24. Diamond skin disease is caused by
- (a) Enterobacter aerogenes (b) Proteus (c) Erysipelas (d) Enterococcus
- 25. Lumpy jaw can be diagnosed by direct examination of
- (a) Sulphur granules b) Grayish-white granules (c) Silver granules (d) None of the above
- 26. Which among the following can be used to demonstrate fungal elements in tissue sections?
 - (a) Periodic acid-Schiff (PAS) (b) Gram staining (c) Modified Ziehl-neelsen
 - (d) India ink
- 27. The caseous lympadenitis in sheep is caused by
 - (a) Mycoplasma gallisepticum (b) Corynebacterium pseudotuberculosis
 - (c) C.renale (d) Aspergillus flavus
- 28.Bovine farcy is caused by
- (a) A.bovis (b) A.lignerisi c) N.farcinica (d) None of the above
- 29.Pasteurella multocida type A causes
- (a) Fowltyphoid (b) Infectious coryza (c) Fowlcholera (d) None of the above
- 30. Sleepy foal disease is caused by
- (a) A.equli (b) *C.novyi type B* (c) *Listeria* (d)All the above
- 31.In gelatin stab culture *E.rhusiopathiae* produce growth of
- (a) Inverted fir tree appearance (b) darkegg yolk appearance(c) bottle brush appearance
- (d) All of the above
- 32. Isolation of Listeria require a process called
- (a) Salt enrichment (b) Heat enrichment (c) Cold enrichment(d)All of the above
- 33.Braxy in sheep is caused by
 - (a) Cl.hemolyticum (b) Cl.septicum(c) Cl.chauvoei(d) All the above
- 34. The only live spore vaccine for animal bacterial disease used isfor
- (a) Anthrax (b) Rabies(c) Enterotoxaemia(d) Black quarter
- 35.A tuft of flagella present at one end of bacteria is called as
- (a) Amphitrichous (b) Lophotrichous(c) Peritrichous (d) Atrichous
- 36. Father of Bacteriology is
 - (a) Antony Van Leewenhock (b) Loius Pasteur (c) Metchinicoff(d) Lister

- 37. The word ending for order of a family in bacterial classification is called as
 - (a) ales (b) oid (c) eles(d) caea
- 38. A strain with special biochemical or physiological properties is called as
 - (a) serovar (b)pathovar(c) biovar(d) *phagewar*
- 39. The DNA is associated at one point with an invagination of cell membrane is called
- a) mesosome b) phagosome c) chondroitin d) mitochondria
- 40. In pneumococcus (*Streptococcus pneumoniae*), the techoic acids bears the antigenic determinants
- a) Frossman antigen b)Heterophile antigen c)Multi antigen d) antigenic membrane

ANSWER KEYS

1.	a	13.b	25.a	37.a
2.	b	14.b	26.a	38.c
3.	d	15.b	27.b	39.a
4.	a	16.a	28.c	40.a
5.	a	17.c	29.c	
6.	a	18.a	30.a	
7.	a	19.b	31.c	
8.	a	20.a	32.c	
9.	a	21.a	33.b	
10.	c	22.c	34.a	
11.	a	23.b	35.b	
12.	c	24.c	36.a	

VETERINARY PARASITOLOGY

General Parasitology and Veterinary Helminthology

- 1. In *Dicrocoelium dendriticum*, egg hatches inthe
 - a) Water
 - b) Definitive host
 - c) Intermediate host
 - d) Soil
- 2. Laying of leathery eggs in chicken is associated with
 - a) Heterakisgallinarum
 - b) Raillietinaspp.
 - c) Prosthogonimusspp.
 - d) Syngamustrachea.
- 3. The secondary complication of acute fasciolosis in sheepis
 - a) Enterotoxaemia
 - b) Black disease
 - c) Foot rot
 - d) Blue tongue
- The metacercaria of Fasciolopsis buski foundin
 - a) Water chest nuts
 - b) Leaves of waterplants
 - c) Grass blades
 - d) Water melons
- 5. An amphistome found in the liver is
 - a) Gigantocotyleexplanatum
 - b) Gastrothylaxspp.
 - c) Paramphistomumcervi
 - d) Cotylophoranspp.
- 6. Traumatic hepatitis in lambs occurin
 - a) Acute fasciolosis

- b) Amphistomosis
- c) Cysticercustenuicolis
- d) a andc
- 7. The cercaria of Schistosomes is called as
 - a) Gymnocephaluscercaria
 - b) Xiphidiocercuscercaria
 - c) Furcocercuscercaria
 - d) Lobocercuscercaria
- 8. The mode of infection in Schistosomosis is
 - a) Skin penetration by cercaria
 - b) Ingestion of metacercaria along withfeed
 - c) Ingestion of infected intermediatehost
 - d) None of the above.
- Lambs infected with *Moniezia* spp. are predisposesto
 - a) Enterotoxaemia
 - b) Black disease
 - c) Black Quarter
 - d) Johne's disease
- 10. A cestode which causing nodules in the small intestine of sheepis
 - a) Monieziaexpansa
 - b) Monieziabenedeni
 - c) Stilesiaglobipunctata
 - d) Avitellinaspp.
- 11. The most pathogenic cestode of poultryis
 - a) Raillietinaechinobothridia
 - b) Davaineaproglottina
 - c) Choanotaeniainfundibulum
 - d) Cotugniadigonopora
- 12. Nodular taeniasis in poultry is caused by
 - a) Raillietinaechinobothridia

- b) Raillietinatetragona
- c) Amoebotaeniasphenoides
- d) Cotugniadigonopora
- 13. Anal pruritus in dog is caused by
 - a) Dipylidiumcaninum
 - b) Echinococcusgranulosus
 - c) Taeniahydatigena
 - d) Taeniamulticeps
- 14. Intermediate host of Dipylidium caninumis
 - a) Dog flea
 - b) Hippoboscamaculata
 - c) Demodex spp.
 - d) Rhipicephalussanguineous
- 15. Neurocysticercosis in man is caused by
 - a) Hydatid cyst
 - b) Cysticercuscellulosae
 - c) Cysticercusbovis
 - d) Coenuruscerebralis
- 16. Hepatitis cysticercosa in lambs is caused by
 - a) Cysticercustenuicolis
 - b) Cysticercusovis
 - c) Strobilocercus
 - Coenuruscerebralis
- 17. Gid in sheep is caused by
 - a) Hydatid cyst
 - b) Coenuruscerebralis
 - c) Cysticercustenuicolis
 - d) Tetrathyridium
- 18. 'Milk spots' in the liver of swine is causedby
 - a) Ascaris suum

- b) Stephanurusdentatus
- c) Macrocanthorhyncushirudinaceus
- d) Metastrongyluselongates
- 19. Anal pruritus in horse is caused by
 - a) Oxyuris equi
 - b) Strongylus vulgaris
 - c) Habronemaspp.
 - d) Anoplocephalaperfoliata
- 20. The largest poultry nematode is
 - a) Syngamustrachea
 - b) Ascaridiagalli
 - c) Capillariaannulata
 - d) Tetrameresspp.
- 21. Ahormoneresponsible for activation of dormant larvae in Toxocara spp is
 - a) Follicular stimulating hormone
 - b) Prolactin
 - c) Oxytocin
 - d) Adrenalin
- 22. In sheep, introduction of "foot rot" organism is associated with
 - a) Bunostomumtrigonocephalum
 - b) Oesophagostomumcolumbianum
 - c) Strongyloidespapillosus
 - d) Dictyocaulusfilaria
- 23. A nematode that associated with nodule formation in the intestine of buffalo is
 - a) Oesophagostomumradiatum
 - b) Paracooperianodulosa
 - c) Trichostrongyluscolubriformis
 - d) Ostertagiaostertagi
- 24. Self cure phenomenon in sheep is associated with
 - a) Haemonchuscontortus

- b) Trichostrongylusaxei
- c) Nematodirusspathiger
- d) Dictyocaulusfilarial
- 25. A fungus which play a major role in the dissemination (spreading) of lung worm larvae on to the pastureis
 - a) Pilobolusspp.
 - b) Arthrobotrysoligospora
 - c) Duddingtoniaflagrans
 - d) Baevariaspp.
- 26. The intermediate host of *Metastrongylus elongatus*is
 - a) Earthworm
 - b) Slug
 - c) Snail
 - d) Grasshopper
- 27. In Swine, introduction of swine influenza virus is associated with
 - a) Stephanurusdentatus
 - b) Strongyloidesspp.
 - c) Metastrongyluselongatus
 - d) Macrocanthorhyncus spp.
- 28. *Habronema* spp in horse iscausing
 - a) Summer sore
 - b) Hump sore
 - c) Kumri
 - d) Haemorrhagic nodules
- 29. Eye worm of cattleis
 - a) Thelaziarhodesii
 - b) Thelaziacallipaeda
 - c) Setariadigitata
 - d) Setariacervi
- 30.Oesophageal tumour in dog is associated with
 - a) Dirofilariaimmitis

- b) Ancylostomacaninum
- c) Spirocercalupi
- d) Dioctophymarenale
- 31. Haemorrhagic nodules on the skin of cattle is due to
 - a) Parafilariabovicola
 - b) Onchocercagutturosa
 - c) Stephanofilariaassamensis
 - d) *Hypoderma*spp
- 32. Cerebrospinal nematodiasis in horse is caused by
 - a) Thelaziarhodesii
 - b) *Habronema*spp.
 - c) Parafilariabovicola
 - d) Setariadigitata
- 33. "Hump sore" in cattle is caused by
 - a) Stephanofilariaassamensis
 - b) Parafilariabovicola
 - c) Stephanofilariazaheeri
 - d) Stephanofilariastilesi
- 34. Verminous dermatitis or Cascado is caused by
 - a) Stephanofilariaspp.
 - b) Onchocercaspp.
 - c) Setariaspp.
 - d) Parafilariaspp.
- 35. The intermediate host of *Dracunculus medinensis* is
 - a) Cyclops
 - b) Crab
 - c) Snail
 - d) Slugs
- 36. Worm nest in cattle is caused by
 - a) Stephanofilariaspp.

- b) Parafilariaspp.
- c) Onchocerca spp.
- d) Setariaspp.
- 37. Nutrition handling of larval of waste products of Trichinella spiralis is governed by stage
 - a) NK cells
 - b) Nursecells
 - c) Flamecells
 - d) Antigen presenting cells
- 38. Whip worm of Sheepis
 - a) Oxyuris spp.
 - b) Mecistocirrusdigitatus
 - c) Trichurisovis
 - d) Cysticercusovis
- 39. Pin worm of equineis
 - a) Oxyuris equi
 - b) Strongylusvulgaris
 - c) Strongylusequi
 - d) Gastrophilusequi
- 40. Visceral larva migrans in humans is caused by larva of
 - a) Ancylostoma caninum
 - b) Toxocara canis
 - c) Habronema majus
 - d) Dirofilaria immitis
- 41. Thorny headed worm of swineis
 - a) Ascaris suum
 - b) Macrocanthorhyncushirudinaceus
 - c) Stephanurusdentatus
 - d) Metastrongyluselongates

- 42. Trichinella spiralis cyst can be detected by using
 - a) Phase contrast microscope
 - b) Fluorescent microscope
 - c) Trichinoscope
 - d) Stethoscope
- 43. Temporary relationship between organisms, wherein two organism transports one
 - a) Symbiosis
- b) mutualism
- c) phoresy
- d) commensalism
- 44. Immunity to superinfection due to the presence of residual parasite is termed
 - a) acquired immunity
 - b) innate immunity
 - c) premunity
 - d) sterile immunity
- 45. A parasite which lead a parasitic way of life only for a short period during its life span is
 - a) temporary parasite
 - b) aberrant parasite
 - c) obligatory parasite
 - d) permanent parasite
- 45. The host which transfers the infective agent without any development in its body is called as
 - (A) Paratenic host
 - (B) Transport host
 - (C) Intermediate host
 - (D) Reservoir host
- 46. An organism which parasitized an organ which is not its natural habitat
 - (A) Incidental parasite
 - (B) Ectopic/Aberrant/Erratic parasite
 - (C) Accidental parasite
 - (D) Occasional parasite
- 47. Host which harbours larval stages of parasite often encapsulated or encysted in its tissue and remains infective to definitive host without any further development is called as

- (A) Paratenic host
- (B) Transport host
- (C) Definitive host
- (D) Intermediate host
- 48. A parasite, which parasitizes the host which is not its actual definitive host is called
 - (A) Incidental parasite
 - (B) Stenoxenous parasite
 - (C) Obligatory parasite
 - (D) Periodic parasite
- 49. An organism which derives benefits from the host, but the host experiences neither benefited nor harmed is called as
 - (A) Parasite
 - (B) Commensal
 - (C) Symbiont
 - (D) Mutualist
- 50. The association between Sea anemone and crabs is an example for
 - (A) Symbiosis
 - (B) Parasitism
 - (C) Mutualism
 - (D) Commensals

Answers (General and Vet. Helminthology):

1. C	11. B	21.B	31.A	41. B
2. C	12. A	22.C	32.D	42. C
3. B	13. A	23.B	33.A	43. C
4. A	14. A	24.A	34.A	44. C
5. A	15. B	25.A	35.A	45. B
6. C	16. A	26.A	36.C	46. B
7. C	17. B	27.C	37.B	47. A
8. A	18. A	28.A	38.C	48. A
9. A	19. A	29.A	39.A	49. B
10. C	20. B	30.C	40.B	50. C

Veterinary Entomology and Veterinary Protozoology

- 1. Fly species having piercing and sucking type of mouthparts, humped thorax and reported from Nilgiris and Palani hills of Tamil Nadu is
 - a) Culicoides
- b) Simulium
- c) Glossina
- d) Pseudolynchia

- 2. 'Stick tight flea' affecting poultry
 - a) Lipeurus caponis b) Echidnophaga gallinacea c) Xenopsylla cheopis d) Tunga penetrans
- 3. Which among the following statements is FALSE?
 - a) only female mosquitoes suck blood from humans
 - b) Simulium flies lay eggs usually in streams/ running water
 - c) both male and female *Phlebotomus* flies suck blood from humans
 - d) both male and female Stomoxys flies suck blood from horses
- 4. Tritrichomonas foetus infection in cattle leads to
 - a) abortion at early stage of gestation
 - b) abortion at mid stage of gestation
 - c) abortion at last stage of gestation
 - d) birth of calf with defective limbs
- 5. Which among the following statements is TRUE?
 - a) Histomonas meleagridis transmitted through eggs of Heterakis gallinarum
 - b) Blue tongue virus is transmitted by *Culex* mosquito
 - c) Nymphal stages are absent in life cycle of ticks
 - d) Mule's operation is done for control of ticks in sheep
- 6. Which is the CORRECT order of veins in wing venation of insects?
 - a) costal vein, subcostal vein, cubital vein, radial vein, median vein, anal vein
 - b) costal vein, subcostal vein, cubital vein, median vein, radial vein, anal vein
 - c) costal vein, subcostal vein, radial vein, median vein, cubital vein, anal vein
 - d) costal vein, subcostal vein, median vein, radial vein, cubital vein, anal vein
- 7. 'Scaly leg' condition in fowl is caused by
 - a) Cnemidocoptes gallinae
 - b) Cnemidocoptes pilae
 - c) Cnemidocoptes mutans
 - d) Dermanyssus gallinae
- 8. Second pair of wings of insects are modified into balancing structures called as
 - a) Halters
- b) Sclerites
- c) Pulvillus
- d) Sensilium
- 9. A pentastomid group 'Tongue worm' present in nasal passage of dogs is
 - a) Linguatula serrata
 - b) Spirocerca lupi

 10. Which one among these is a CORRECT MATCH? a) Bots - Gasterophilus larva, Grub - Hypoderma larva, Nits - lice eggs, seed tick - larva of tick b) Bots - Gasterophilus larva, Grub - Hypoderma larva, Nits - lice eggs, seed tick - adult tick c) Bots - Hypoderma larva, Grub - Gasterophilus larva, Nits - tick eggs, seed tick - larva of tick d) Bots - Hypoderma larva, Grub - Gasterophilus larva, Nits - tick eggs, seed tick - adult tick
11. Which fly can pass through the commercially available mosquito nets? a) Melophagus ovinus b) Hippobosca maculata c) Haematobia irritans d) Culicoides fulvithorax
12. Larval stages of ticks will have a) 2 pairs of legs b) 3 pairs of legs c) 4 pairs of legs d) legs are absent
 13. Protozoan parasite transmitted by crop milk to young pigeons a) Histomonas meleagridis b) Tetratrichomonas gallinarum c) Trichomonas gallinae d) Cryptosporidium meleagridis
14. Which of the following is a bilaterally flattened parasite?a) Liceb) Fleac) Tickd) Mite
15. 'Red mange'is caused by a) Notoedres cati b) Demodex canis c) Sarcoptesscabiei d) Psoroptes cuniculi
 16. 'Long nosed cattle louse' is a) Haematopinus suis b) Solenoptes capilatus c) Damalinia ovis d) Linognathus vituli
17. 'Green bottle blow fly' is a) Musca autumnalis b) Lucilia cuprina c) Sarcophaga d) Haematobia irritans
18. Hard tick resembling the seed of castor beans, so called as 'castor bean tick' is a) <i>Ixodes ricinus</i> b) <i>Dermacentor variabilis</i> c) <i>Amblyomma hebraeum</i> d) <i>Hyalomma anatolicum anatolicum</i>
19. Buparvaquone is the drug of choice fora) Ehrlichiosisb) Babesiosisc) Theilerioisd) Toxoplasmosis

c) Dipylidium caninum d) Oncicola canis

20. 'PIRODOG' is a vaccine availa	able and used for
a) Ehrlichiosis in dogs	b) Babesiosis in dogs
c) Sarcystis cruzi in dogs	d) Toxoplasmosis in dogs
<u> </u>	emitted through ingestion of ticks orally by dogs oon canis c) Hepatozoon canis d) Sarcocystis
22. Wet film examination of blooda) <i>Trypanosoma evansi</i>c) Abnormal shaped RBCs in bl	b) Microfilaria in blood
23. Transovarian transmission occua) Babesiabigemina infection byb) Theileriaannulata infection bc) Anaplasma marginale infectiond) None of the above	y Boophilus ticks yy Hyalomma ticks
24. Zoonotic protozoan parasite traa) <i>Trypanosoma evansi</i>c) <i>Toxoplasmagondii</i>	nsmitted from cats to pregnant woman is b) <i>Trichomonas vaginalis</i> d) <i>Isospora felis</i>
25. Theileria annulata in cattle is t a) Hyalomma analoticum anato microplus	
c) Argas persicus	d) Ornithodoros savignyi
26. First identified protozoan paras	ite by Anton von Leeuwenhoeck is
a) Trypanasoma evansi	b) Eimeria stiedae
c) Neospora caninum	d) Trypanosoma lewici
27. NNN medium used for in vitro	cultivation of
a) Leishmania donovanii	b) Trypanosomacruzi
c) Trypanosoma theileri	d) All the above
28. Intracellular, extracytoplasmic a) <i>Toxoplasma gondii</i>	protozoan parasite causing villus atrophy b) Cryptosporidiumparvum
c) Leishmania donovanii	d) Giardia lamblia
29. Rakshavac-T used as vaccine in a) <i>Babesiabigemina</i> b) <i>Theiler</i>	n cattle for iaannulata c) Anaplasma marginale d) All the above
30. Equine trypanosome species tra	ansmitted by coitus is
a) Trypanosoma evansi	b) Trypanosoma equiperdum
c) Trypanosoma equinum	d) All the above

31. Haemoproteus coloumbae in pig	eons is transmitted by
a) Dermanyssus gallinae	b) Stomoxys calcitrans
c) Pseudolynchia canariensis	d) Cnemidocoptes mutans
32. Caecal coccidiosis in poultry is c	eaused by
a) Eimeria brunetti	b) Eimeria necatrix
c) Eimeria acervulina	d) Eimeria tenella
33. East coast fever in cattle is cause	ed by
a) Trypanosoma evansi	b) Theileria annulata
c) Theileria parva	d) Babesia bovis
34. Transmission of <i>Babesia bigemin</i> tick was first identified by	na in cattle through arthropod Boophilus annulatus
a) Anton von Leeuwenhock	b) Smith and Kilbourne
c) Donovan	d) J.P.Dubey
35. Which is a Romanowsky's stain	among these ?
a) Leishman's stain	b) Wright's stain
c) Giemsa's stain	d) All the above
,	
 36. Which is CORRECT statement value a) Oocyst contains 4 sporocysts b) Oocyst contains 2 sporocysts c) Oocyst contains 2 sporocysts d) Oocyst contains 4 sporozoites 	each with 2 sporozoites each with 4 sporozoites each with 2 sporozoites
37. 'Dalmeny disease' in cattle is ass a) Eimeria zuernii b) Eim c) Sarcocystis bovicanis d) Sarc	aeria bareillyi
38. Anaplasmamarginale in cattle is	transmitted through
	ting vectors b)Blood transfusion
c) Needle transmission	d) All the above
39. Morula stage of <i>Ehrlichia canis</i>	
a) RBC b) Small lymphocyte	c) Eosinophil d) Monocyte
40. 'Sabin-Feldman dye test' is used	for diagnosis of
a) Entamoeba histolytica	b) Toxoplasma gondii
c) Giardia lamblia	d) Plasmodium falciparum
41. TICKGARD vaccine is prepared a) Chitin of <i>Boophilusmicroplus</i> b) BM86 antigen of <i>Boophilusm</i>	icroplus
c) Chitin of Rhipicephalus sangu	uneus

d) BM86 antigen of <i>Haem</i>	aphysalis intermedia
42. 'Gall sickness' is associate	ed with disease caused by
a) Anaplasma marginale in	cattle b) <i>Babesia bovis</i> in cattle
c) Eimeria stiedae in rabbit	d) Theileria parva in cattle
43. 'Koch blue bodies' are	
a) Piroplasms of <i>Theileria</i>	annulata in RBC
b) Schizonts of <i>Theileria</i> a	annulata in RBC
c) Piroplasms of <i>Theileria</i>	
d) Schizonts of <i>Theileria a</i>	• • •
44. Diminazine aceturate (Bere	enil) is used in the treatment of
a)Babesiosis	b) Theileriosis
c) Trypanosomosis	d) All the above
45. 'Tropical canine pancytope	enia' is associated with
a) <i>Babesia gibsoni</i>	b) Babesia canis
c) Ehrlichia canis	d) Ehrlichia bovis
•	

- 46. Solution 2.5% potassium dichromate is used for
 - a) Staining of intestinal Giardia
 - b) in vitro sporulation of Eimeria oocysts
 - c) in vitro cultivation of Entamoeba
 - d) Clearing agent for ticks
- 47. Modified ZN staining is used for staining of
 - a) oocystsof Eimeria

b)oocysts of Cryptosporidium

c) oocysts of Isospora

d) oocysts of Toxoplasma gondii

- 48. Winter coccidiosis in calves is mainly caused by
 - a) Eimeria canadensis

b) Eimeria bareillyi

c) Eimeria zuernii

d) Eimeria necatrix

- 49. Dipylidium caninum in dogs is transmitted by
 - a) Ctenocephalides canis

b) Trichodectes canis

c) Ctenocephalides felis

d) All the above

- 50. Melophagus ovinus fly is commonly known as
 - a) Bazaar fly
- b) Sheep cleg
- c) Nasal bot
- d) Sheep ked

41. B

42. A

43. D

44. D

45. C

46. B

47. B

48. C

49. D

50. D

Answers (Vet.Entomology and Vet. Protozoology):

1.	В	
2	R	

3. C 4. A

5. A

6. C

7. C

8. A 9. A

10. A

11. D

12. C 13. C

14. B

15. B 16. D

17. B

18. A

19. C 20. B 21. C

22. D

23. A

24. C 25. A

26. B

27. D

28. B

29. B

30. B

31. C

32. D 33. C

34. B

35. D

36. A

37. C

38. D

39. D

40. B

VETERINARY PATHOLOGY

1	Exudate is characterised by	
	A. Alkaline Ph	B. Protein content < 3%
	C. Clear watery fluid	D. High leucocyte count
2	Vesicles in foot and mouth disease are an example of	f
	A. Hydropic degeneration	B. Mucinous degeneration
	C. Mucoid degeneration	D. Parenchymatous degeneration
3	Deposition of sand particles in lung is called	
	A. Anthracosis	B. Chalicosis
	C. Silicosis	D. Siderosis
4	Dystrophic calcification is characterized by	
	A. Hypocalcaemia	B. Normal calcium level in blood
	C. Urate deposition	D. Excessive growth of bones
5	Obstructive jaundice occurs in	
	A. Anaplasmosis	B. Leptospirosis
	C. Gall stones	D. Copper toxicity
6	Plasma cells are derived from	
	A. Plasma	B. Lymphocytes
	C. Bone marrow	D. Macrophages
7	Cart wheel appearance of nucleus is a characteristic	
	A . Plasma cell	B . Lymphocytes
	C . Neutrophil	D . Macrophages
8	Thrush breast heart is seen in	
	A . Amyloid degeneration	B . Glycogen infiltration
	C . Hyropic degeneration	D . Fatty infiltration
9	"Basophilic stippling" of erythrocytes is encountered	l in
	A . Anaplasmosis	B .Lead poisoning
	C . Haemonchosis	D . All of the above
10	"White spotted kidney" is the pathological manifesta	ation of
	A . Diffuse interstitial nephritis	B .Focal interstitial nephritis
	C . Pyelonephritis	D .Pyaemic nephritis
11	"Large white kidney" is the characteristic macroscop	pic lesion seen in
	A . Subacute glomerulonephritis	B .Chronic glomerulonephritis
	C . Acute glomerulonephritis	D .None
12	"Broken wind or heaves" is characteristic of	
	A . Acute alveolar emphysema	B . Chronic alveolar emphysema
	C . Interstitial emphysema	D . None of the above
13	"Bread and butter" appearance of heart is	
	A . Fibrinous pericarditis	B .Fibrinous peritonitis
	C . Both A and B	D . None of the above
14	Fish flesh appearance of muscle is seen in	
	A . Myonecrosis	B . Fat infiltration

	C . Stiff lamb disease	D . Glycogen infiltration					
15	Tuberculosis is the best example for						
	A . Coagulative necrosis	B . Caseation necrosis					
	C . Liquefaction necrosis	D . Fat necrosis					
16	Macrophages of brain are called						
	A . Histiocytes	B . Astrocytes					
	C . Microglia	D . Schwann cells					
17	Diffuse spreading suppurative inflammation of con-	nective tissue is called					
	A . Boil	B . Abscess					
	C . Pustule	D . Phlegmon/cellulitis					
18	"Onion skin" appearance of the blood vessel wall is	seen in					
	A . Hyperplastic arteriolosclerosis	B . Hyaline arteriolosclerosis					
	C . Aneurysm	D .Atherosclerosis					
19	Inflammation of gray matter in brain is known as						
-	A .Poliomyelitis	B .Polioencephalitis					
	C .Poliomalacia	D . Leucomalacia					
20	The test used to diagnose the presence of protein in						
	A . Pandy's test	B .Nonne-apelt test					
	D . Benedict's test	D . Both A & B					
21	The test used to find out the presence of protein in t						
21	A . Heller's test	B .Hay's test					
	C .Rothera's test	D .Rivaltas test					
22	The test used to find out the presence of protein in t						
	A .Heller's test	B .Hay's test					
	C .Rothera's test	D .Rivaltas test					
23							
23	Presence of metachromatic granules are the charateristic features of A . Mast cell tumour B . TVT						
	C . Melanoma	D . All of the above					
24	"Fingerprint" appearance of tumour is seen in	B.741 of the above					
24	A . Squamous cell carcinoma	B.TVT					
	C . Haemangiopericytoma	D .Basal cell carcinoma					
25	Cytoplasmic vacuolations are the charateristic featu						
23	A . Mast cell tumour	B.TVT					
	C . Melanoma	D. None of the above					
26	Pearls or cell nest is charateristic features of	D. None of the above					
20	A .Squamous cell carcinoma	B .TVT					
	C .Basal cell carcinoma						
27	"Rodent ulcer or Jacob's ulcer or hair matrix carcin	D .Haemangiopericytoma					
27							
	A .Mast cell tumour	B . Haemangiopericytoma					
20	C .Squamous cell carcinoma	D .Basal cell carcinoma					
28	Mischief by killing or maiming is punished under	D IDC 420					
	A . IPC 428 & 429	B . IPC 420					
	C . IPC 415	D . IPC 430					

29	Sexual assault or Bestiality unnatural offence is pun	ished under
	A . IPC 326	B . IPC 377
	C . IPC 415	D . IPC 430
30	Prevention of cruelty to animals act was found in	
	A . 1959	B . 1960
	C.1961	D . 1962
31	The common preservative used for chemical examin	nation of tissue samples
	A . Saturated salt solution	B . 10% Formalin
	C .Mercuric chloride	D. None of the above
32	Universal fixative for histopathology examination is	S
	A .40 % Formalin	B . Saturated salt solution
	C. 10% Formalin	D .All of the above
33	Postmortem discolouration or staining of the carcass	s is
	A .Algor mortis	B .Livor mortis
	C .Rigor mortis	D .None of the above
34	The wound caused by sharp cutting weapon is	
	A .Incised wound	B .Lacerated wound
	C .Punctured wound	D .Gunshot wound
35	The wound caused by pointed object is	
	A .Incised wound	B .Lacerated wound
	C .Punctured wound	D .Gunshot wound
36	Bishoping is punished under the section	
	A .IPC 428 & 429	B . IPC 420
	C . IPC 415	D . IPC 430
37	Malicious poisoning and doping is punished under	
	A .IPC 428 & 429	B . IPC 420
	C . IPC 415	D . IPC 430
38	Sale of noxious food or drink is punished under	
	A .IPC 273	B . IPC 271
20	C . IPC 274	D . IPC 275
39	False entry or false evidence is punished under	D IDC 204
	A .IPC 192 & 193	B . IPC 204
40	C . IPC 415	D . IPC 420
40	Samples required for Nitrate/Nitrite poisoning is	D C
	A .Liver, kidney and brain	B. Stomach contents, liver and brain
41	C .Serum in ice, Feed & water	D. None of the above
41	The quantity of liver, intestinal & stomach content	-
	A .100 g	B .300 g
42	C .10 g Arborization is the feature of	D . 500-1000 g
42		R. Flactrocution/lightoning stroles
	A .Burn injury C .Drowning	B .Electrocution/lightening stroke D .Doping
	C.Diuwiinig	. թարաց

43	Heart failure cells in lungs and "Nut meg pattern" or	f liver are found in
	A . Chronic general passive hyperemia	B . Acute general passive hyperemia
	C . Local passive hyperemia	D . All of the above
44	Focal infiltration of amyloid material in spleen is ca	lled
	A .Sago spleen	B .Bacon spleen
	C .Both A &B	D . None of the above
45	Genearlised subcutaneous edema is called	
	A .Anaplasia	B .Anasarca
	C .Agenesis	D .Apoplexy
46	Haemorrhage in brain is called	
	A .Anaplasia	B .Anasarca
	C .Agenesis	D .Apoplexy
47	Gas gangrene occur in	
	A .Extremities	B .Clostridial diseases
	C .Lungs	D .Intestine
48	The inflammation of spermatic cord is called	
	A .Orchitis	B .Seminal vesiculitis
	D .Balanitis	D .Funiculitis
49	The inflammation of crop is called	
	A .Ingluvitis	B .Proventricuitis
	C .Ventriculitis	D .None of the above
50	The inflammation of eyelids is called	
	A .Trichiasis	B .Keratitis
	C .Entropion	D .Blepharitis
51	"Cells of tripier/epitheliolisation" of lung is the feat	ure of
	A .Interstitial pneumonia	B .Bronchopneumonia
	C .Interstitial emphysema	D .Alveolar emphysema
52	The wear and tear pigment is called	
	A .Lipochrome	B .Melanin
	C .Hemosiderin	D .Bilirubin
53	The alteration in the size, shape and orientation of co	ells are the features of
	A . Hypertrophy	B .Metaplasia
	C .Hyperplasia	D .Dysplasia
54	Giant cells are arise from	
	A .Macrophage	B .Neutrophil
	C .Lymphocyte	C .Plasma cells
55	Air embolism causes	
	A . Caisson disease	B .Brisket disease
	C .Bottle jaw	D .All the above
56	Father of modern/cellular pathology is	
	A .John hunter	B .Rudolf virchow
	C .Koch	D .Ellie metchnikof

57	The routine stain used for histopathological examina	ation is
	A .Leishman stain	B .Giemsa stain
	C .Lactophenol cotton stain	D .Haematoxylin & Eosin stain
58	The special stain used for demonstration of fat in tiss	sues is/are
	A .Osmic acid	B .Sudan red
	C .Oil red O	D .All of the above
59	The special stain used for demonstration of iron is	
	A .Von kossa stain	B .Koster stain
	C .Pearl's Prussian blue stain	D . Sellers stain
60	The special stain used for demonstration of amyloid	
	A .Periodic acid Schiff	B .Congo red
<i>c</i> 1	C. Pearl's Prussian blue stain	D . Alcian blue stain
61	Bull's eye appearance of erythrocyte is	D. T 11/ 1
	A .Drepanocye	B .Target cll/codocyte
<i>(</i> 2	C .Cabot ring	D.Lead poisoning
62	The anticoagulant used for preservation of glucose is A .Sodium fluoride	B .EDTA
		D .All of the above
63	C .Heparin The diluting fluid used for platelet estimation is	D.All of the above
03	A .Haeyem's fluid	B . Rees Ecker's fluid
	C .Thomas fluid	D . Nambiar's fluid
64	Miller's disease/Big head disease/Bran disease in ho	
0.	A . Phosphorous deficiency	B . Magnesium deficiency
	C . Phosphorous excess	D . Magnesium excess
65	Goose stepping gait in pig is due to the deficiency of	
	A . Folic acid	B . Magnesium
	C . Pyridoxine	D . Pantothenic acid
66	Proventriculus and gizzard junction haemorrhage	is a typical lesion in
	A. IBD	B. Ranikhet disease
	C. Mycotoxins	D. Avian Influenza
67	Ecchymoses in shank is a characteristic lesion of	
	A. Chicken infectious anemia	B. IBD
	C. Ranikhet disease	D. Avian Influenza
68	Which one of the following is incorrect about lymple	noid leukosis
	A. Caused by RNA virus	B. It is neoplastic in origin
	C. Ovaries are rarely affected	D. Nerves are frequently
69	Common form of cannibalism which results in an	involved
U J	A. Vent pecking	B. Toe pecking
	C. Pica	D. Feather pecking
	C. 110u	D. I camer pecking

70	The characteristic finding in fowls affected with spin	
	A. Severe splenomegaly	B. Hepatomegaly
7.1	C. Nephritis	D. Cardiomegaly
71	The organ frequently involved in Hjarre's disease is	
	A. Lung	B. Spleen
	C. Kidney	D. Intestine
72	Gizzard erosion is due to	
	A. Vitamin A deficiency	B. Vitamin B_{12} deficiency
	C. Zinc deficiency	D. Vitamin C deficiency
73	Facial oedema and foul smelling discharges are seen	
	A. CRD	B. Infectious coryza
	C. Infectious synovitis	D. None
74	Zoonotic disease in chicken is	
	A. Avian influenza	B. Salmonellosis
	C. Chlamydiasis	D. All of the above
75	"Stargazing" is associated with deficiency of	
	A. Vitamin A	B. Vitamin B1
	C. Vitamin B2	D. Folic acid
76	The inclusions seen in hepatocytes of birds with IBF	
	A. Intracytoplasmic	B. Intranuclear
	C. Both A and B	D. None of the above
77	Blue comb disease	
	A. Favus	B. Avian monocytosis
	C. Chicken infectious anemia	D. Avian influenza
78	Chicken infectious anemia is caused by	
	A. Birnavirus	B. Adenovirus
	C. Coronavirus	D. Circovirus
79	The site of choice for collection of material for diag	•
	A. Air sacs	B. Trachea
0.0	C. Lungs	D. Infraorbital sinus
80	Crazy chick disease is due to deficiency of	
	A. Thiamine	B. Vitamin E
	C. Riboflavin	D. Vitamin A
81	The susceptible age of chicken for IBD is	
	A. Less than a week	B. 1- 2 weeks
	C. 2 -4 weeks	D. Older birds
82	The replication of infectious bronchitis virus occur	s in the tissues of
	A. Respiratory tract	B. Oviduct
	C. Kidney	D. All
83	Femoral head necrosis is associated with the deficie	ency of
	A. Molybdenum	B. Selenium
	C. Zinc	D. Copper
	The replication of infectious bronchitis virus occur A. Respiratory tract C. Kidney Femoral head necrosis is associated with the deficie A. Molybdenum	B. Oviduct D. All ency of B. Selenium
	C. Zinc	D. Copper

84	Round heart disease is associated with the deficience	y of
	A. Biotin	B. Choline
	C. Selenium	D. Magnesium
85	Bumble foot is caused by	9
	A. Staphylococci	B. Corynebacterium
	C. E.coli	D. None of the above
86	The acute toxemic diseases of sheep that shows hyp	erglycemia and glycosuria are observed during
	A.Lock jaw	B.Pulpy kidney disease/ Over eating disease
	C. PPR	D. Both B and C
87	Perosis/ slipped tendon is observed in the deficiency	y of in chicken
	A.Sulphur	B.Manganese
	C.Iron	D.Copper
88	Copper deficiency causes	
	A.Enzootic ataxia	B.Azoturia
	C.Post parturient hemoglobinuria	D.None of the above
89	Canine filariasis is caused by	
	A.Spirocerca lupi	B.Dirofilaria immitis
	C.Setaria digitata	D. Eimeria spp.
90	The species that is considered as the amplifier host	for FMD infection is
	A.Cattle	B. Sheep
	C.Goat	D.Pig
91	Vitamin E deficiency in calves causes	
	A. Scurvy	B. White muscle disease
	C. Haemorrhagic diathesis	D. Chastek paralysis
92	In Rabies, rhabdovirus isbut has an affi	nity toward gland
	A. Neurotropic and temporal	B. Epitheliotropic and pituitary
	C. Neurotropic and salivary	D. Neurotropic and pineal
93	In scrapie,is the notable microscopic	elesion
	A. Neuronal necrosis	B. Perivascular cuffing
	C. Vacuolation of neurons	D. None of the above
94	Brooder pneumonia in chicks is caused by	
	A. Trichophyton schoenleinii	B. Microsporum gallinae
	C. Aspergillus fumigatus	D. Candida spp.
95	Para-pox virus causes	
	A. Cow pox	B. Horse pox
	C. Contagious pustular dermatitis	D. Vesicular stomatitis
96	Negri bodies are more commonly found in	portion of the brain in canine and
	-portion of the brain in cattle	
	A. Hippocampus and cerebellum	B. Cerebellum and Hippocampus
	C. Medulla and pons	D. Pons and Medulla
97	Sheep are found dead with oozing of dark coloured,	•
	A. Anthrax	B. Blue tongue
	C. sheep pox	D. Anapalsmosis

98	Morbillivirus is not antigenically related to	
	A. FMD in cattle	B. Canine distemper
	C. PPR of sheep and goats	D. Measles of humans
99	Old dog encephalitis is otherwise called	
	A. Rabies	B. Canine Distemper
	C. Infectious Canine Hepatitis	D. Canine Parvo viral enteritis
100	Icterus, anaemia, hemoglobunuria, abortion, petechi	
	organism in section by Levaditi's stain are diagnost	
	A. Anaplasmosis	B. IBRT
	C. Listeriosis	D. Leptospirosis
101	Equine plague is otherwise called	
	A. African horse sickness	B. Equine encephalomyelitis
	C. Swamp fever	D. Strangles
102	"Onion skin" like appearance cross section of cases	
102	A. Caseous lymphadenitis of sheep	B. Ulcerative lymphangitis
	C. A only correct	D. A and B correct
103	Anaemia in Equine infectious anaemia is due to	B. IT and B contect
103	A. Direct lysis of RBC	B. Erythrophagocytosis
	C. Haemoglobin – haptoglobin complex removal	D. All the above
104	Feline panleukopenia virus replicates in	D. Thi the doore
104	A. Labile cells	B. Stable cells
	C. Permanent cells	D. None of the above
105	Ascaris can cause	B. None of the doore
105	A. Milk spot liver	B. Pipe stem liver
	C. Hepatocellular carcinoma	D. Bile duct hyperplasia
106	The animal is least susceptible to tetanus	B. Bile duct hyperplasia
100	A. Cattle	B. Chicken
	C. Horse	D. Dog
107	Staphylococcus aureus in pigs causes	D. D0g
107	A. Greasy pig disease	B. Glasser's disease
	C. Gut edema disease	D. Aujeszky's disease
108	Ancylostomiasis in aberrant hosts causes dermatitis	•
100	A. Creeping eruptions	B. Visceral larva migrans
	C. Chonchre	D. Lishman Donovon bodies
109	Visceral larva migrans is characterized by	D. Eisiman Donovon bodies
10)	A. Eosinophilic granulomas	B. Fibrinous pneumonia
	C. Leishmonoid bodies	D. Leishman- Donovan bodies
110	Presence of adult amphistomes in forestomach is	D. Leisiman-Donovan bodies
110	A. Highly pathogenic	B. Moderately pathogenic
	C. Non-pathogenic	D. Mildly pathogenic
111	Pseudorabies is also known as	D. Hindry pathogonic
111	A. Aujeszky's disease	B. Mad itch
	C. Infectious bulbar paralysis	D. All of the above
	C. Infectious outout paratysis	D. THE OF THE GOOVE

112	The characteristic lesion observed during Maedi infection is				
	A. Interstitial Pneumonia	B. Demyelination			
	C. Haemorrhagic enteritis	D. None of the above			
113	Glanders is identified by				
	A. Strauss test	B. Antony's test			
	C. Casoni's test	D. Coggin's test			
114	"Rectal pinch" biopsy is helpful for the diagnosis of				
	A. Rinderpest	B. Malignant catarrh fever			
	C. Johne's disease	D. Tuberculosis			
115	"Diamond" shaped cutaneous lesions are the charac	teristic feature of			
	A. Swine influenza	B. Swine erysipelas			
	C. Swine fever	D. Porcine enzootic pneumonia			
116	The other name for Brucellosis is/ are				
	A. Mediterranean fever	B. Malta fever			
	C. Bang's disease	D. All			
117	The symptoms manifested in the bovine babesiosis	is/ are			
	A. Haemoglobinuria	B. Icterus			
	C. Haemolysis	D. All			
118	Weil's disease is otherwise called				
	A. Leptospirosis	B. Listeriosis			
	C. Pasteurellosis	D. Brucellosis			
119	Punched out ulcers in the abomasum is characteristi				
	A. Trypanasomiasis	B. Babesiosis			
	C. Theileriosis	D. Toxoplasmosis			
120	Tigroid heart is the characteristic lesion of				
	A. Vesicular stomatitis	B. Foot and Mouth disease			
	C. Vesicular exanthema	D. Rinderpest			

Keys:

	1							1			
1	D	21	D	41	D	61	В	81	В	101	A
2	A	22	A	42	В	62	A	82	D	102	A
3	C	23	A	43	A	63	В	83	A	103	D
4	В	24	С	44	A	64	С	84	С	104	A
5	C	25	В	45	В	65	D	85	A	105	A
6	В	26	A	46	D	66	A	86	В	106	A
7	A	27	D	47	В	67	D	87	В	107	A
8	D	28	A	48	D	68	D	88	A	108	D
9	D	29	В	49	A	69	A	89	В	109	A
10	В	30	В	50	D	70	A	90	D	110	С
11	A	31	A	51	A	71	D	91	В	111	D
12	В	32	С	52	A	72	В	92	C	112	A
13	A	33	В	53	D	73	В	93	C	113	A
14	C	34	A	54	A	74	D	94	C	114	С
15	В	35	С	55	A	75	В	95	C	115	В
16	С	36	В	56	В	76	В	96	A	116	D
17	D	37	A	57	D	77	В	97	A	117	D
18	A	38	A	58	D	78	D	98	A	118	A
19	В	39	A	59	C	79	D	99	В	119	С
20	D	40	C	60	В	80	В	100	D	120	В

VETERINARY PHARMACOLOGY

1)	Mo	rphine is obtained from		
	a)	Papaver somniferum	b)	Atropa belladona
	c)	Areca catechu	d)	Hyoscyamus niger
2)	The	e renal elimination of the dr	ug is	favoured by
	a)	Protein bound	b)	High lipid solubility
	c)	Non-ionized form	d)	High water solubility
3)	If t	he total amount of a dru	g pre	esent in the body is 2000 mg and its plasma
	con	centration is 25 μg/ml, its v	olun	ne of distribution is
	a)	100 L	b)	80 L
	c)	60 L	d)	40 L
4)	Dru	ig induced teratogenicity is		
	a)	Drug causing cancer	b)	Drug causing genetic material abnormalities
	c)	Drug causing foetal	d)	Veterinarians induced diseases
		abnormalities		
5)	Vita	amin with antioxidant prop	erties	s include
	a)	Vitamin D	b)	Vitamin A
	c)	Vitamin K	d)	Vitamin E
6)	Wh	ich one of the following is	an ar	ntiemetic
	a)	Apomorphine	b)	Copper sulphate
	c)	Sodium chloride	d)	Metoclopromide
7)	Cal	cium homeostasis in the bo	dy is	regulated by, except
	a)	Calcitonin	b)	Insulin
	c)	Vitamin D	d)	Parathyroid hormone
8)	Wh	ich of the following wo	ould	be ineffective in producing closure of the
	eso	phageal groove in calf?		
	a)	Water	b)	Milk
	c)	Sodium bicarbonate	d)	Copper sulphate
9)	Dru	g-receptor occupation theo	ry w	
	a)	E.J.Ariens	b)	A.J.Clark
	c)	Patron	d)	R.P.Stephenson
10)	Wh	o is regarded as the father of		•
	a)	Dhanwantri		Hippocrates
	c)	Galen	d) .	R N Chopra

11)	Whi	ch class of antiarrhythmic	agei	nts	act by blocking calcium channel
	a)	Class I	b)	Cl	lass II
	c)	Class III	d)	Cl	ass IV
12)	Isoto	onic dextrose solution con	tains	,	
	a)	2.5% dextrose	b)	59	6 dextrose
	c)	7.5% dextrose	d)	10	% dextrose
13)	The	following drugs are antim	otili	ty	drugs, except;
	a)	Codeine	b)	Bisacodyl
	c)	Diphenoxylate	d)	Loperamide
14)	One	of the following is the the	erape	uti	c response with digitalis
	a)	Increased heart rate		b)	Increased end diastolic pressure
	c)	Increased blood volume		d)	Increased force of myocardial contraction
15)	The	following are anterior pit	uitary	y h	ormones, except;
	a)	Prolactin		b)	Oyxtocin
	c)	Follicle stimulating hormone		d)	Thyroid stimulating hormone
16)	The		f a d	rug	g tends to reduce its volume of distribution
	a)	High lipid solubility		b)	Low ionisation of drug
	c)	High plasma protei binding	n	d)	High tissue binding
17)	Secr	retory product of plant sou	irce o	of c	drug is
	a)	Gum		b)	Alkaloid
	c)	Saponin		d)	Glycosides
18)	Acti	ve transport of a substan	nce a	acr	oss biological membranes has the following
	char	acteristics, except;)		
	a)	It is specific		b)	It is pH dependent
	c)	It is saturable		d)	It requires energy
19)	Nev	w drugs are discovered by	the	fol	lowing procedures, except;
	a)	Molecular designing		b)	Serendipity
	c)		NΑ	d)	Intolerance
20)	500	biotechnology mg of drug A is admin	istere	ed	through the intravenous route. The same drug is
	also	o administered orally an	d or	nly	250 mg is absorbed unchanged. What is the
	bio	availability of drug A?			
	a)	50%		b)	200%
	c)	50 mg		d)	200 mg

21)	Astringents
	a) Loosen the keratin layer b) Reduce the inflammation
	c) Induce hyperemia d) Precipitate proteins
22)	Which of the following statement is correct regarding the inverse agonist
	 a) It has both affinity and b) It has affinity but no intrinsic activity (IA=0) maximal intrinsic activity (IA=1)
	c) It has affinity and d) It has affinity but intrinsic activity in the submaximal intrinsic negative side (IA=-1) activity (IA= 0 to 1)
23)	H1 antihistaminic antiemetic drugs possess the following characters, except;
	a) Anticholinergic b) Antiinflammatory
	c) Antidopaminergic d) Sedation
24)	Which of the following is not an anticoagulant
	a) Vitamin K b) Heparin
	c) Sodium citrate d) Warfarin sodium
25)	Alkalinization of urine hastens the excretion of
	a) Weakly basic drugs b) Weakly acidic drugs
	c) Strong electrolytes d) Nonpolar drugs
26)	Concomitant administration of furosemide and aminoglycoside antibiotics may
	cause, a) Hepatotoxicity b) Cardiotoxicity
	c) Osteoporosis d) Ototoxicity
27)	Drugs that act in the CNS to raise the threshold of cough centre are called
,	a) Antitussives b) Demulcents
	c) Expectorants d) Brochodilators
28)	Official name of a drug is
	a) One given in b) Its chemical name
	Pharmacopoeia
	c) Its proprietary name d) Its non-proprietary name
29)	Nitrogenous products of plant origin is
	a) Alkaloid b) Glycosides
	c) Tannins d) Saponins
30)	The combined effect of two drugs is less than that of individual effect is
	a) Summation b) Potentiation
	c) Antagonism d) Addition
31)	A nonvolatile, highly lipid soluble drug is metabolized at a rate of 15% per hour. On
	intravenous injection it produces general anaesthesia for only10 min. Which process

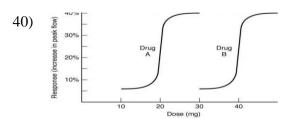
is responsible for quick termination of its action

- a) Metabolism in liver
- b) Plasma protein binding
- c) Excretion by kidney
- d) Redistribution
- 32) Which of the following cytochrome P450 isoenzymes is involved in the metabolism of largest number of drugs
 - a) CYP 3A4
- b) CYP 2C9
- c) CYP 2E1
- d) CYP 1A2
- 33) If a drug is excreted in urine at the rate of 10 mg/hr at a steady-state plasma concentration of 5 mg/L, then its renal clearance is
 - a) 0.5 L/hr
- b) 2.0 L/hr
- c) 5.0 L/hr
- d) 20 L/hr
- 34) Select the receptor that is located intracellularly
 - a) Opioid μ receptor
- b) Steroid receptor
- c) Prostaglandin receptor d) Angiotensin receptor

- 35) Down regulation of receptors can occur as a consequence of
 - Continuous use agonists
- - of b) Continuous use of antagonists
 - c) Chronic use of CNS d) Denervation depressants
- Somatostatin inhibits the release of
 - a) Growth hormone
- b) Insulin
- c) Thyrotropin
- d) Oestrogen
- Simple bloat can be relieved by administration of drug 37)
 - a) Liquid paraffin
- b) Pectin

c) Sucralfate

- Kaolin d)
- An ideal fluid therapy for treating diarrhoea is
 - a) Normal saline
- b) Ringer lactate
- c) 5% dextrose
- 25% dextrose
- 39) An orphan drug is
 - a) A very cheap drug
- A drug which has no therapeutic use b)
- A drug needed for treatment or prevention of rare disease
- A drug which acts on orphanin receptors



- Drug A is less potent and less efficacious than drug
- b) Drug A more potent but equally efficacious to drug B
- c) Drug B more potent but equally efficacious to drug
- Drug B less potent and less efficacious than drug A
- 41. The following clinical conditions can be treated with prostaglandin F₂ alpha, EXCEPT;
 - a) Luteolysis

Pyometra

c) Inflammation

Mummified foetus

42.

Ananesthetic	Oil;Gas PC	Blood:gas PC	MAC(%)
Ether	65	12.1	1.9
Halothane	224	2.3	0.75
Desflurane	19	0.42	6
N2O	1.4	0.47	105

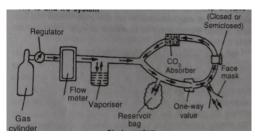
Based on the above table, the following are true, EXCEPT;

- have intermediate induction
- a) Halothane is potent anaesthetic and b) N₂O is very less potent anaesthetic and have very fast induction
- and have very fast induction
- c) Desflurane is less potent anaesthetic d) Ether is potent anaesthetic and have fast induction
- 43. Renin-Angiotensin system is inhibited by the following, EXCEPT;
 - a) Aldosterone antagonists
- Direct renin blockers b)
- c) Sympathomimetic drugs
- d) Angiotensin converting enzyme inhibitors
- 44. The adrenoceptor located on the prejunctional nerve cell is
 - a) β 1 receptor
- b) α1 receptor
- c) \(\beta 2 \) receptor
- d) α2 receptor
- 45. Neurotransmitters are terminated by the following processes, EXCEPT;
 - a) Metabolic degradation
- b) Co-transmission
- c) Re-uptake process
- d) Diffusion
- 46. The duration of local anaesthetics are prolonged by
 - Cocaine

- b) Adrenaline
- c) Acetyl choline
- Procaine
- The followings are mediators of allergic reactions, EXCEPT; 47.
 - Histamine
- b) Leukotrienes
- Angiotensin c)
- Platelet activating factor
- Which one of the following is natural opioid, 48.
 - Morphine a)
- Pethidine
- Tramadol
- Fentanyl

49.	-	drugs v	vill reverse the effects of diazepam in case there is
	an overdose?		
	a) Naloxone	b)	Flumazenil
	c) Zolazepam	d)	Butorphanol
50.	Buspirone is		
	a) Nonsedative anixolytic	-	b) MAO inhibitor
	c) Tricyclic antidepressan		d) Selective serotonin reuptake inhibitor
51.	All the four stages of anaest		
	a) Ketamine	b)	Thiopentone
	c) Isoflurane	d)	Ether
52.		Start of	f anaesthetic inhalation
			Stage I
		τ	Unconsciousness
			Stage II
	\mathbf{A}		
			\$ tage III
	Cessation of spo	ontaneou	s respiration with paralysis of diaphragm
			Stage IV
	Y 1 Cl 1:		of circulation and death
	In the flow diagram, A refer	rs to,	
	a) Consciousness		b) Cessation of eyeball movement
	c) Regular Respiration		d) Loss of consciousness
53.	The fellowing one sheline a	otomo EV	VOEDT.
33.	The following are choline e a) Carbachol	b)	Arecoline
		d)	Methacholine
54.	c) Bethanechol The drug of choice to treat a		
54.		anapnyia b)	Epinephrine
	a) Pheniraminec) Montelukast	,	Salbutamol
55.	What is the first indicator of		
33.	a) Skeletal muscle twitch		b) Tonic-clonic convulsions
	c) Vomiting	iiiig	d) Cardiac arrhythmia
56.	Non-selective, beta adrener	oic recei	•
50.	a) Noradrenaline	gic recep	b) Propranolol
	c) Metoprolol		d) Isoproterenol
57.	The shortest acting antichol	inestera	, I
31.	a) Physostigmine	mestera	b) Neostigmine
	c) Edrophonium		- ·
			d) Tacrine

58.



The picture refers to which method of administration of inhalational anaesthetic agent

- Open drop method
- Semiclosed system b)
- Closed system
- d) None of the above
- 59. Catecholamine includes all of the following, EXCEPT;
 - Epinephrine

- b) **Ephedrine**
- Norepinephrine
- d) **Dopamine**
- 60 Stage of surgical anaesthesia are
 - a) Plane 1 and 2 of Stage II
- Plane 3 and 4 of Stage II b)
- c) Plane 1 and 2 of Stage III
- Plane 3 and 4 of Stage III
- The following are products of cyclooxygenase pathway, EXCEPT
 - a) LTB4

PGF2 alpha b)

TXA2 c)

- PGE2 d)
- 62 The following are the gastrointestinal prokinetic drugs, EXCEPT;
 - Pheniramine a)
- Cisapride b)

c) Renzapride

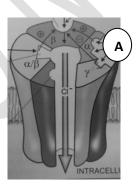
- d) Metoclopromide
- 63. A dog is chasing cow. Cow tries to attack the dog. Name the autonomic nervous system involves in this incidence.

b)

d)

- a) Sympathetic nervous system
- Parasympathetic nervous system
- c) Musculo-skeletal system
- All of the above

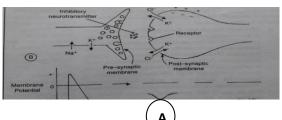
64.



In the diagram, A indicates

- a) Binding site for GABA
- b) Binding site for benzodiazipine
- Binding site for Barbiturate c)
- d) Binding site for aspartate
- 65. The following are characteristics of injectable anaesthetics, EXCEPT;
 - Slow induction a)
- Do not require costly and sophisticated equipment
- c) Slow recovery
- d) Depth or level of anaesthesia is difficult to control

66.



In the above diagram, A refers to,

- Excitatory Post a) Potential (EPSP)
- Synaptic b)
- Inhibitory Post Synaptic Potential (IPSP)

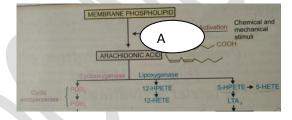
- c) Action Potential (AP)
- No potential d)
- 67. During the induction of anaesthesia, the flow direction of anaesthetic agent is

d)

- Inspired air a) Alveoli Arterial blood Brain
- b) Alveoli Inspired air Arterial blood **b**rain
- Arterial blood c) Inspired air Alveoli ↓ Brain



68.



In the diagram, A refers to,

- Cyclooxygenase
- Lipooxygenase b)
- Thrombane oxygenase
- d) Phospholipase A
- Toxicity of aminoglycosides includes all of the following, except
 - Neuromuscular blockade
- b) Anaemia

Ototoxicity

Nephrotoxicity d)

I70	The following antibiotics are a except	acting by inhibition of cell wall synthesi
	a) Penicillin	b) Cephalosporin
	c) Macrolide	d) Bacitracin
71	Sulphonamides and trimethoprin	are combined in the ratio of
	a) 5:1	b) 5:2
	c) 5:3	d) 5:4
72	The anthelminitic activity of cholinomimetic activity	the following drug is attributed to i
	a) Albendazole	b) Levamizole
	c) Piperazine	d) Organophosphorus compounds
73	Natural penicillin is	
	a) Amoxycillin	b) Penicillin G
	c) Ticarcillin	d) Methicillin
74	The followings are macrolide and	tibiotics, except;
	a) Erythromycin	b) Vancomycin
	c) Azithromycin	d) Tylosin
75	The major toxic effects of ampho	otericin B is
	a) Bone marrow suppression	b) GI disturbances
	c) Renal toxicity	d) Liver toxicity
76)	Which one of the following drug	s is cell cycle phase specific?
	a) Actinomycin D	b) Cisplastin
	c) Vincristine	d) Chlorambucil
77	6-mercaptopurine is	
	a) Antimetabolite	b) Mitotic inhibitors
	c) Topoisomerase inhibitors	d) Alkylating agent
78	Synthetic pyrethroid ectoparacid	e is
	a) Amitraz	b) Dichlorvos

- c) Cypermethrin
- d) Ivermectin
- The following drugs are effective against cestodes, except;
 - Praziquintol

- b) Ivermectin
- Pyrantal pamoate
- d) Fenbendazole
- 80 Pyrethroids are highly sensitive to
 - a) Cat

b) Cattle

Dog

d) Horse

Key

1	A	11	D	21	D	31	D	41	C
2	D	12	В	22	D	32	A	42	D
3	В	13	d	23	В	33	A	43	С
4	C	14	D	24	D	34	В	44	D
5	D	15	В	25	В	35	В	45	В
6	D	16	С	26	D	36	A	46	В
7	В	17	A	27	A	37	A	47	С
8	A	18	В	28	A	38	В	48	A
9	В	19	D	29	C	39	C	49	В
10	d	20	A	30	D	40	b	50	A

51	D	61	A	71	A
52	A	62	A	72	D
53	В	63	A	73	В
54	В	64	В	74	В
55	A	65	A	75	С
56	В	66	В	76	A
57	C	67	A	77	a
58	C	68	d	78	С
59	В	69	В	79	В
60	c	70	C	80	a

VETERINARY TOXICOLOGY

1.	In ruminants blue-green colou	red faeces is indicative of following poisoning
	a) Lead	b) Mercury
	c) Copper	d) Selenium
2.	Compulsive hypermotility is	associated with following poisoning
	a) Lead	b) Mercury
	c) Copper	d) Selenium
3.	The plant which contains 34%	of oxalates on dry matter basis is
	a) Hologetan glomeratus	b) Beta vulgaris
	c) Oxalis pescaprae	d) Sorghum vulgare
4.	Bright blindness in sheep is ca	nused by ingestion of the following plant
	a) Alkali disease	b) Bracken fern poisoning
	c) Oxalate poisoning	d) Arsenic poisoning
5.	One of the following organocl	nlorine is does not accumulate on adipose tissue
	a) Lindane	b) Methoxychlor
	c) DDT	d) Endosulfan
6.	The following is the toxic ration	o of Mo:Cu in the body
	a) 6:1	b) >2:1
	c) <2:1	d) 12:2
7.	"Phossy jaw" condition in she	eep is seen under the following toxicity
	a) Mercury	b) Selenium
	c) OPC	d) Phosphorus
8.	In flurosis condition, density of	of the bone is
	a) Increased	b) Decreased
	c) No Change	d) None of the above
9.	Type I pyrethroid toxicity are	referred to as
	a) T Syndrome	b) CS Syndrome
	c) All the above	d) None of the above
10.	The plant enzyme responsible	for the relaease of HCN from cyanogenitic
	glycoside is	10.5
	a) Thiaminase	b) Beta glycosidase
	c) Alpha glycosidase	d) None of the above
11.		s" is associated with the following poisoning
	condition	
	a) As	b) Hg
	c) Cu	d) Pb
12.		ey" is associated with the following poisoning
	condition	
	a) As	b) Hg

	c)	Cu d) I	Pb	
13.	The	e word "rocker shaped hoof" is asso	ociate	d with the following poisoning
		ndition		
		Acute oxalate poisoning	b)	1 0
		Chronic Selenium poisoning	d)	None of the above
14.	The	e resistant species for Plumbism is		
	a)	· ·	o) Pi	~
	,		_	attle
15.			horse	s is associated with the following
	poi	soning		
	a)	As	b)	Hg
	c)	Cu	d)	Se
16.		e word "chocolate coloured blood"	is ass	sociated with the following
	_	soning condition Nitrite	b)	Nitrate
		Cyanide	d)	CO
17.		ercury poisoning also known as	u)	
17.		Hydrargyrism	b)	Plumbism
	c)	Blind staggers	d)	Molybdenosis
18.		nich of the following age group is n	,	
10.		Calf	b)	Bull
	c)	Heifer	d)	
19.		ppoxur acts by	u)	
17.		Cholinesterase stimulation	b)	Reversible cholinesterase
	u)	Chomicsterase stimulation		inhibition
	c)	Irreversible cholinesterase	d)	Cholineacetyltransferase inhibition
	•	inhibition	α,	Chomicae et jurans reruse inniereren
20.	Op	compounds inhibit the following e	nyme	(s)
	-	-	•	BuChE
	,	NTE	d)	All the above
21.	,	PAM is contraindicated for the toxic		
		Sumithion	-	Propoxur
	c)	Dichlorovos	d)	Ecothiophate
22.	Org	ganochlorine compounds act by cor	npetit	•
	a)	Glycine	b)	_
	c)	GABA	d)	Aspartate
23.		nich one is comparatively highly to		-
		OPC		Rotenone
		Parathion		DDT

24.	Paraqu	at accumulates in		
	a) Li	ver	b)	Kidney
	c) Pa	ncreas	d)	Lung
25.	The ch	aracteristic smell of phosphine g	as, v	which can be used for diagnosis of
	zinc			
		nide toxicity is		
		arlic odour		Bitter almond odour
		sh like / Acetylene odour		None of the above
26.				the following poisoning condition
		brus precatorius	b)	Lantana camara
		cinus cummunis	d)	Ipomea carnea
27.			is as	ssociated in the treatment of one of
		lowing poisoning condition	1 \	
		brus precatorius	b)	Lantana camara
• •		cinus cummunis		Strychnus nuxvomica
28.		f the following is commonly calle		
		eridium aquilinum	b)	Lantana camara
		cinus cummunis	d)	Strychnus nuxvomica
29.	_	alus sp. Is		
		bligate Se accumulator		Passive Se accumulator
	,	acultative Se accumulator		None of the above
30.	Acute	ANTU intoxication is characterized	zed ł	ру
	a) Ca	ardiac toxicity	b)	Neurotoxicity
	c) Pu	ilmonary toxicity	d)	All the above
31.	Which	is botanical rodenticide		
	a) A	NTU	b)	Red squill
	c) Zr	nP	d)	All the above
32.	Bovine	e bunker syndrome in cattle is du	e to	
	a) Aı	mmonia / NPN poisoning	b)	Oxalate poisoning
	c) Sa	alt poisoning	d)	All the above
33.	Calom	el is		
	a) M	ercurous chloride	b)	Mercuric chloride
	c) M	ercurochrome	d)	None of the above
34.	The an	tidote for cyaninde poisoning is	ŕ	
		odium nitrite	b)	Sodium thiosulphate
	ŕ	oth of the above	d)	None of the above
35.	,	na camara is primarily a	,	
		epatotoxic	b)	Cardiotoxic
		enotoxic	d)	None of the above
36.	,	of the following is true with reg		

	a) Uncouples oxidative phosphorylation	b) Impairs TCA cycle
	c) Both the above	d) None of the above
37.	,	found in the commercially available
57.	mosquito repellants is	Tourid in the commercially available
	a) Parathion	b) Amitraz
	c) Allethrin	d) Bromdioline
38.		RRENT LARYNGEAL nerve paralysis
	due to the toxicity of	
	a) Pb	b) HCN
	c) Se	d) Strychnine
39.	HCN contents are more in	
	a) Mature plants	b) Young plants
	c) Dried plants	d) All the above
40.	Abrus precatorius cause toxicity due to	
	a) Cytotoxic effect	b) Proteolytic effect
	c) Both the above	d) None of the above
41.	The main ingredient of universal antido	te is
	a) Activated charcoal b)	Sodium bicarbonate
	c) Atropine d)	Copper sulphate
43.	To determine the LD ₅₀ , the following str	udy should be conducted
	a) Chronic toxicity study b)	Sub chronic toxicity study
	c) Sub acute toxicity study d)	Acute toxicity study
44.	Bitter almond smell of stomach content	indicates poisoning with,
	a) Phosphorous b)	Selenium
	c) Copper d)	HCN
45.	In the post-mortem, Brick red mucosal	membrane of GI tract lesion seen in
	a) Lead poisoning b)	Copper poisoning
	c) Mercury poisoning d)	Arsenic poisoning
46.	Garlic odour of stomach content indicat	tes poisoning with,
	a) Phophorous b) Selenium
	c) Copper d) HCN
47.	Bone is considered as a main storage sit	te for
	a) Mercury b) Se	elenium
	c) Lead d) M	olybdenum
48.	Biomagnification of poisoning is seen in	n
	a) Mercury b) Se	elenium
	c) Lead d) M	olybdenum
49.	Desferoxamine is a specific antidote for	poisoning due to

a) Mercury

b) Iron

c) Lead

- d) Molybdenum
- A substance is classified as extremely toxic if the lethal dose (LD) is (Hodge-50. Sterner scale)
 - a) < 1 mg/kg

- b) 5 to 15 g/kg
- c) 1 to 50 mg/kg
- 0.5 to 5 g/kg d)

VETERINARY TOXICOLOGY - KEY

1. 26. Abrus precatorius c) Copper a) 2. 27. a) Lead Strychnus nuxvomica 28. 3. a) Hologetan glomeratus Pteridium aquilinum 29. 4. b) Bracken fern poisoning a) Obligate Se accumulator 5. d) Endosulfan 30. c) Pulmonary toxicity c) <2:1 31. 6. b) Red squill 7. 32. Ammonia / NPN poisoning d) Phosphorus a) 8. a) Increased 33. a) Mercurous chloride 9. 34. a) T Syndrome c) Both of the above 10. b) Beta glycosidase 35. Hepatotoxic 11. 36. Both the above c) Cu 12. 37. Allethrin c) Cu c) 13. c) Chronic Selenium poisoning 38. Pb a) 14. b) Pig 39. b) Young plants 15. d) Se 40. Both the above 16. a) Nitrite 41. a) Activated charcoal 17. a) Hydrargyrism 42. Acute toxicity study d) a) Calf 43. 18. d) HCN 19. b) Reversible cholinesterase 44. d) Arsenic poisoning inhibition d) All the above 45. 20. a) **Phophorous** 21. b) Propoxur 46. c) Lead 22. c) GABA 47. a) Mercury 23. b) Rotenone 48. a) Mercury 24. 49. d) Lung b) Iron

50.

a)

< 1 mg/kg

c) Fish like / Acetylene odour

25.

VETERINARY PHYSIOLOGY

1. The ideal anticoagi	ulant for blood glucose	e estimation is	
a. heparin	b. EDTA c. sodi	um citrate	d. sodium fluoride
2. The ideal anticoago	ulant for blood coagula	ntion studies is	
a. heparin fluoride	b. EDTA	c. sodium citrate	d. sodium
3. The ideal anticoago	ulant for the study of b	lood cell morphology	is
a. potassium oxalate	b. EDTA	c. sodium citrate	d. ammonium oxalate
4. The anticoagulant	not recommended for 1	BUN estimation is	
a. sodium fluoride	b. EDTA	c. sodium citrate	d. ammonium oxalate
5. The anticoagulant	commonly used for blo	ood transfusion is	
a. potassium oxalate	b. EDTA	c. sodium citrate	d. sodium fluoride
6. Heparin acts as an	anticoagulant by actin	g along	
a. Antithrombin III	b.Factor III	c.Factor XIII	d. Factor I
7. The water content	of plasma is		
a. 99-100%	b.91-92%	c. 75-80%	d.45-50%
8. The solid content of	of plasma is		
a. Nil	b.8-9% c.15-2	0% d. 50-	55%
9. The yellow colour	of plasma is due to		
a. bile salt	b. bilirubin	c. carotene	d. both b and c
10. The colloidal osm	notic pressure of blood	is maintained by	
a. albumin	b. globulin	c. creatinine	d. phospholipids
11. All the circulating	g mammalian erythroc	ytes are	
a. non nucleated and	nonmotile b. non	nucleated and motile	
c. nucleated with no	organelles d. mot	ile with no organelles	
12. The erythrocytic of	enzyme which facilitat	es carbon dioxide trans	sport in blood is
, , ,		genase c.carbonic anh	ydrased.carboxylase
13. The avian erythro	•		
a. biconvex and nucl	eated b. biconcave	and nucleated	

c. elliptical and nucleated	d. elliptical and non	nucleated	
14. The haemoglobin content	of solid portion of er	ythrocytes is	
a.15%	b.24%	c.75%	d.95%
15. The total surface area of r	nammalian erythrocy	te is	
$a.10-20m^2/kg$	b. $27-37m^2/kg$	c. $40-50\text{m}^2/\text{kg}$	d. $57-67\text{m}^2/\text{kg}$
16. The lifespan of erythrocyt	tes can be measured b	y tagging with isotopes	of
a. ¹¹ Se	b. ²² Cr	c. ¹⁴ Fe	d. ³² P
17. The principle site of eryth	rocyte destruction in	domestic animals is	
a.bone marrow b.splee	en c.live	c.lymp	oh nodes
17. The principle site of eryth	procyte destruction in	birds is	
a.bone marrow	b.spleen	c.liver	d.lymph nodes
18. Complete blockage of bile	e duct may be diagnos	sed by urinary absence	of
a.biliverdin b.bilirubin	c.urobilinogen	d.bilirubindiglucouro	nide
19.Extrarenal source of eryth	ropoietin production i	n mammals is	
a. liver b. lymph node	c. lun	gs	d. bone
marrow			
20.Biosynthesis of haemoglo	bin starts in		
a.rubricyte b.metarubricte	c.rubr	iblast	d.reticulocyte
21.One gram of haemoglobin	carries ml of	oxygen	
a.4.0 b.1.34	c.15.4		d.19.6
22. Non toxic useless respirate	ory pigment is		
a. myoglobin b. methaem	oglobin c.carboxyhae	moglobin d.oxyl	naemoglobin
23. Pyrogens are produced from	om		
a.lymphocytes	b.monocytes	c.basophils	d.neutrophils
24.Stress conditions or exoge	enous ACTH administ	ration leads to	
a.eosinopenia b.eosin	nophlia	c.lymphocytosis	d.
monocytosis			
25. The shift to left denotes a	ll except,		
a.bacterial infections		b.inflammation	
c.increase in immature neutro	ophils	d. increase in immatu	re lymphocytes

26. The lifespan of pl	latelets in circulatin	ıg blood is			
a. 2-3days	b. 8-11 days	c. 50-	-60days	d.100-12	20days
27. Hemal lymph noo	des are the site of g	ranulopoie	esis in		
a. dogs	b. cattle	c. ho	rse	d. birds	
28. The naturally occ	curring antibody aga	ainst eryth	rocytes is		
a.Ig A	b.IgD	c.IgN	1	d.IgG	
29. The immunoglob	ulin that does not c	ross place	ntal barrier is		
a.Ig A	b.IgD	c.IgN	l l	d.IgG	
30. Blood volume (m	nl/kg body weight)	of cattle is			
a.12-24	b.27-36	c. 38-	-47	d.52-60	
31. All are platelet ag	ggregation and activ	vation ago	nists,except		
a.thrombin	b.ADP c.epinephi	rine	d.protein C		
32. All have anticoag	gulant activity, exce	pt			
a.thrombomodulin	b.von Willebrand	factor	c.plasmin		
$d.\alpha_2$ macroglo	bulin				
33. The contact phase	e of coagulation is	absent in			
a.cattle	b.dogs	c.hor	se	Č	l.birds
34. The factor XII is	absent in				
a.marine mammals	b.birds	c.hor	se	Č	d.ruminants
35. Buccal mucosal b	oleeding time is a re	eliable test	to diagnose		
a. haemophilia b.pla	ntelet dysfunctionc.	liver dysfu	inctiond.ingesti	on of rode	nticide
36. The coagulation to	factor with shortest	half life is	3		
a.Factor IV	b. Factor V		c. FactorVII	Č	l Factor X
37. The cells having	contractile and pha	gocytic ac	tivity in the Jux	taglomeru	lar apparatus
are					
a.maculadensa b.JG o	cells c.r	nesangial	cells	d.peritul	oular cells
38. Filteration fraction	on refers to				
a.GFR/RPF ratio	b.GFR/RE	3F ratio	c.RPF/GFR r	atio c	l.RBF/GFR
ratio					
39. The substance rea	adily filtered in the	glomerulu	is is		

a.negatively charged b.positively charged c.globular shaped d. neutral charged 40. Amost 65% of the Na⁺ reabsorption occurs in the a.PCT b.loop of henle c.DCT d.collecting duct 41. Proximal convoluted tubule accounts for ______% of glucose absorption a.25 b.50c.75d.10042. Glucose and aminoacids are reabsorbed in nephron tubules by a.cotransport b.countertransport c.passive diffusion d.all the above 43. Hyperosmolarity of renal medulla is facilitated by all except a.increased medullary Na⁺ b. recirculation of urea c. sluggish medullary blood flow d. increased medullary Ca²⁺ 44. Regulation of Ca²⁺ reabsorption primarily occurs in a.PCT b.loop of henle c.DCT d.collecting duct 45. Micturition reflex is regulated by a. cerebral cortex b.cerebellum c.hypothalamus d.spinal cord and brain stem 46.Plasma clearance is lowest for a.creatinine b.inulin d.para amino hippuric acid c. urea 47.Renal portal system is a unique feature in the kidneys of b.birds c.equines d.canines a.swine 48. Antidiuretic hormone of birds is a.argininevasotocin b.arginine vasopressinc.arginine leucine d. arginine isoleucine 49. Decrease in GFR results due to a. increased sympathetic stimulation b. decreased sympathetic stimulation c. dilation of afferent arterioles d. increased blood pressure 50. Uric acid in birds is formed in the a.liver b.kidney c.liver and kidney d.cloaca 51. Costal breathing is observed during all conditions, except a.normal respiration b.breathing difficulty c. pneumothorax d. pain in abdomen 52. Panting in dogs results in all except b. decreased dead space ventilation a. increased dead space ventilation c. constant alveolar ventilation d. hyperventilation

except, a. decrease in H⁺ b.increase in carbondioxide c.increase in 2,3diphosphoglycerate d. increase in blood temperature 54. Majority of the carbondioxide is transported in blood as a. bicarbonate b. carbamino compound c.dissolved CO2d. carbonic acid 55. The inspiratory volume and respiratory rate is controlled mainly by b. ventral respiratory group a.dorsal respiratory group c.pnemotaxic centre d.apneustic centre 56.Increased alveolar ventilation results due to d. decrease in a. increase in PO₂ b. increase in PCO₂ c. increase in H⁺ PO_2 57. Decrease in oxygen concentration of the arterial blood is c.asphxia d.anoxia a.hypoxia b.hypoxemia 58.All are vasodilators except c.kininsd.nitric oxide a.Prostacyclin b.ThromboxaneA₂ 59. The greatest left ventricular volume is achieved during which one of the following periods of the cardiac cycle? a. Isovolumetric ventricular relaxation b. rapid filling c. diastasis d. atrial systole 60. The v wave of the atrial pressure curve corresponds most closely to which one of the following? a. Atrial contraction b. Ventricular contraction and bulging of the A-V valves back into the atria c. Continued filling of the atria from the veins during ventricular relaxation d. Closure of the semilunar valves 61. Whichoneofthe following periods of the cardiac cycle is thefirstperiodnormally associated with ventricular diastole? a. Atrial contraction b.Isovolumetric relaxation c.Rapidfilling d. Diastasis 62. The third heartsound, S3, is most closely associated with which one of thefollowing periods of the cardiac cycle? a. Atrial contractionb. Isovolumetric contractionc. Rapidejection d. Rapidfilling

53. All the following will result in shifting of oxyhaemoglobin dissociation curve to right

63. The depolarization phase of the atrioventricular nodal action potential is most closely associated with the movement of cations through which one of the following types of channels?								
a. Sodium "leak	«" channels	b.Fast voltage-	gated sodium					
channels								
c. Slow voltage-gated calcium channels d. Potassium channels								
64. The binding of aced decrease in the heart ra a. Calcium influx	ate that results from an	increase in which one	•					
65. Which oneofthefold a. LeadaVR	lowingelectrocardiogra b. LeadV4	•						
a. Leada v K	b. Lead v 4	c.Lead III	d.Lead aVF					
66. TheTwaveof normal ECG is a. Always negative b.Alwayspositiveif Rwaveis positive c. causedbydelayin betweenatrialand ventriculardepolarization d.caused byventricularrepolarization 67. Anincrease inatrial pressureresults in whichoneofthefollowing?								
a. Decreaseinplasma ab. Anincrease in plasmc. Anincrease in plasmd. Anincrease inheartra	naangiotensinIIconcent naaldosteroneconcentr							
68Which ofthefollowing	•							
thecirculatorysystemha a. Arteries	nsthelargestdistribution b.Capillaries	of blood volume? c.Veins	d. ventricles					
69. The velocity of blood for the circulation? a. Venules	lowingthroughthecircular b.Veins	torysystemislowestinwhi c.Smallarteries	ch of thefollowingparts d.Capillaries					
70. Whichoneof the followa. Capillaries	owingpartsof thecircula b.Veins	ntionhasthehighestcom c.Aorta	pliance? d.Arteries					
71.Water retention by a.PCT	ADH is achieved by its b.DCTc.loop of henle							
72. What percentage of a.5	cardiac output is renal b.15	blood flow c.25	d.30					

73. The substance that	is actively secre	ted into the tu	ubular fluid by	the tubular cells
is a.Na ⁺	$b.K^+$	c.Gluc	ose	d.Cl ⁻
74.The major anion reaa.Cl	sponsible for VF b.bicarbonate	A exchange in c.phos		$d.K^+$
75. Which ofthefollow cycle? a. pressuredeveloped in systole c. pressuredeveloped in d. atrial and ventricular	uringventriculars nleftventricleis h nleftventricleduri	ystoleisequal igherthantheri ingsystole ised	betweenrightar ightventricledu qualtotheaortic	ndleftside ring
76. Increasein heartrated a. Baroreceptorreflex c. vasovagal'reflex	lue toincreaseinver	b. Psyc	nownas hogenicreflex oridgereflex	
77. Themostimportant fa a. radius ofthevessel ofthevessel		eatestinfluence redifference c.		n thevessels is d.length
78. Concerningcoronaryo a. Undernormal conditio b.10% of cardiac outputfl c.Bloodflow toventricula d. Major controlof coron	n,cardiacmusclese lowsthroughcorona rmusclesis greater	xtract 15ml O ₂ arycirculation duringsystoletl	/100ml blood	
79. Duringsystemic hypo a. pulmonaryandsystemic b.pulmonaryvesselsconst c.pulmonaryvesselsdilate d.pulmonaryandsystemic	cbloodvessels contrict andsystemicvese eandsystemicvesse	esselsdilate		
80. Thetendencytoform of a. arteriolarconstriction c. increasedplasmaprotei		easedby	b. increasedven d. dehydration	ous pressure
81. Which ofthefollowin a. Maltase	genzymeis NOTse b.sucrase	ecretedbythesm c.lactase		nogen
82.Monensinisaddedtoth	e ruminantdietmai	nlyto		
a.Protectprotein hydrolyst c.improvevitaminsynthes		b.increasecellu d.inhibit metha	•	

83. Which of the following enzyme is part of the plasma membrane of small intestine epithelial cells? a.Amylase b.sucrase c.lipase d.trypsin 84. The major function of the large intestine is a.absorptionofmonosaccharides b.absorptionofvitamins c.absorptionofwaterandelectrolytes d.absorptionofbilesalts 85. Amylolyticbacteriainthe rumen canperformtheir functionverywellinanoptimumpHof a.5.5 to 6.6 b. 3.0to4.0 c.7.4to8.4 d.10.0to14.0 86. The stimulatory effects of gastrin on HCl secretion are mediated in part by gastrin-induced secretion of b. Aminoacids c. Gastrin-releasingpeptide a. Acetylcholine d. Histamine 87. Themainexcitatoryneurotransmittertogut smoothmuscleiswhichofthefollowing? a. Acetylcholine b. GIP c. Noradrenaline d. SubstanceP 88. Whichofthefollowing statements about volatile fatty acids (VFAs) is INCORRECT? a. VFAs supply60-80% of theruminant's energy needs b. Acetate is the major VFAproduced in the rumen c. VFAs are absorbed bypinocytosisin therumen epithelium d. Almostallofbutyrateisconverted toβ-OHbutyratebeforeabsorption 89.Rumination a. rateincreases whenanimals arefedfinelygrounddiets b. involvestriphasic contractionsofthe rumen c. is notcoordinated with respiration d. cyclesarestimulatedby chemoreceptorsintherumenwall 90.ExcessH+ions produced intherumen duringfermentationareremoved by b.propionateformation a. formation of CH4 c.saturation of fattyacids d.all oftheabove 91. When environmental temperature becomes very high and the animal is notable to maintain homeothermy,they a.increasethemetabolicrate b.decreasefeedintake c.decreasethe respiratoryrate d.decreasesperipheral bloodflow 92. Whichofthefollowing factors DOES NOT affect the adult animal's ability to with standcold? a. long,thickcoat b.subcutaneousfatlayer c.brown fatoxidation d.increasedmetabolicrate 93. Thebrainareawhichhas thesetpointand is involved in maintaining the body temperature is a. cerebral cortex b.pineal body c.hypothalamus d. medulla

94. Indomestic animals, thermalsweatingiscontributedby

a. apocrineglands b.apocrineandeccrineglands

c.eccrineglands d.mesocrineglands

95. Whichof the following species DOES NOT depend on the rmore gulatory sweating for

heat dissipation?

b.cattle c.birds a. horse d.camel

96.Lactation can be artificially induced by injection of

a. injection of lactogen b.largedoseof oxytocin

c.injectionof bovine somatotropin d.injection of LH

97. The milk let-down reflex in dairy animals is initiated by

a. a rise in intramammary pressure

b.tactile stimulation of the teats

c.a declineinprogesteronesecretionaftercalving

d.a riseinprolactin secretion

98. Hormone involved in mammary lobulo alveolar growth is c. progesterone d.growth hormone a.estrogen b.prolactin

99. Hormone involved in mammary duct growth is

a.estrogen b.prolactin c. progesterone d.growth hormone

100. Hormone involved in prolactin release inhibition is

a.estrogen b.dopamine c.oxytocin d.epinephrine

Answer Key

Question	Answer	Question	Answer	Question	Answer	Question	Answer
No.		No.		No.		No.	
1	d	26	b	51	a	76	d
2	С	27	b	52	b	77	a
3	b	28	С	53	a	78	b
4	d	29	a	54	a	79	b
5	c	30	d	55	С	80	b
6	a	31	d	56	d	81	d
7	b	32	b	57	b	82	d
8	b	33	d	58	b	83	b
9	d	34	a	59	d	84	С
10	a	35	b	60	c	85	a
11	a	36	С	61	b	86	d
12	c	37	С	62	d	87	a
13	c	38	a	63	c	88	С
14	d	39	b	64	b	89	b
15	d	40	a	65	c	90	d
16	d	41	d	66	d	91	b
17	a	42	a	67	d	92	c
18	c	43	d	68	c	93	c
19	a	44	c	69	d	94	a
20	a	45	d	70	b	95	c
21	b	46	c	71	a	96	c
22	b	47	b	72	b	97	b
23	d	48	a	73	b	98	c
24	a	49	a	74	a	99	a
25	d	50	c	75	b	100	b

DEPARTMENT OF VETERINARY SURGERY AND RADIOLOGY

1.	Sterilization of operation theatre done by					
	a. Nitrous oxide gas	b. Steaming				
	c. Ethylene oxide gas	d. UV irradiation				
2.	Autoclaving of surgical instruments are	carried out under				
	a.121°C,15lbs pressure for 15 mts	b. 350°C, 15lbs pressure for 15 mts				
	c. 150°C, 15lbs pressure for 30 mtsd.	d. 121°C,15lbs pressure for 60 mts				
3.	Cellulitis is inflammation of					
	a) Skin	b) Mucosa				
	c) Muscle	d) Connective tissue				
4.	Lembert pattern suture is used in					
	a) Intestine	b) Oesophagus				
	c) Hollow organ	d) none of the above				
5.	Cryo surgery is done by using					
	a) Carbon dioxide	b) Nitrous gas				
	c) Liquid nitrogen	d) none of the above				
6.	A fresh, sutured wound heals by					
	a) First intention	b) Scab formation				
	c) Second intention	d) Mixed intention				
7.	Inherent capability of the suture materia	rent capability of the suture material to return to original gross shape is called as				
	a.Elasticity	b. Capillarity				
	c. Flexibility	d. Memory				
8.		adhesion for surgical procedures in dog is				
	a. Polymethyl methocrylate	b. Cyanoacrylate				
	c. Polyurethane	d. polypropylene				
9.	An example for tendon suture is	T Jr TJ				
	a. Cushing	b. Bunnel				
	c. Lembert	d. Parker-kerr				
10.	The wound is known as infected when the					
	a. 10 ⁵ bacteria/gm	b.10 ⁶ bacteria/gm				
	c.10 ⁸ bacteria/gm	d. 10 ⁷ bacteria/gm				
11.	Radical surgery is surgery done to	0.10 0.000				
	a. Conserve damaged tissue	b. Remove damaged tissue				
	c. Eliminate root cause	d. Correct malformations				
12.	Lembert suture include in its bite	G. Correct manormations				
12.	a. Serosa	b. Serosa, muscles and submucosa				
	c. Submucosa and mucosa	d. Mucosa alone				
	c. Saomacosa ana macosa	a. mucosa atone				

13.	Overlapping sutures are applied to close					
	a. Rumen wound	b. Abomasal wound				
	c. Hernial ringd. Wound on tongue					
14.	A swelling that develop slowly and devoid	of inflammatory symptoms				
	a) Cyst	b) Tumor				
	c) Haematoma	d) Abscess				
15.	Ulcer may be formed due to					
	a)Impaired nutrition	b) Chronic irritation				
	b)Vasomotor distutbances	d) Bacterial infection				
16.	The binding material in wound is laid by					
	a) Blood vessels	b) Endothelial cells				
	c) Fibroblast cells	d) Epithelial cells				
17.	Scald is injury produced by					
	a. Acids	b. Alkali				
	c. Steamd. Flame					
18.	Father of modern surgery is					
	a. Halsted	b. W.C.Roentgen				
	c. Joseph Lister d. R.Eberlin					
19.	Wound does not showing tendency to heal	iswound				
	a. Ulcerated wound	b. Proud flesh				
	c. Granulatingd. Aseptic wound					
20.	is the method of heating the tissues in depth by passing through them					
	modified high frequency electric current					
	a. UV iiradiation	b. Infrared therapy				
	c. Ultrasound therapy	d. Diathermy				
21.	The main reason for atropine premedication	•				
	a) Reduce salivation	b) Muscle relaxation				
	c) Prevent bradycardia	d) Hasten sedation				
22.	Intravenous pyleography is a radiographic					
	a) Urethral calculi	b) Cystic calculi				
	c) Kidney function	d) Bladder emptying				
23.	Biological effect of X-ray used for treatment	•				
	a) Degenerating cells	b) Fast multiplying cells				
	c) Regenerating cells	d) Blood cells				
24.	In radiographic parameters, one of the follo	_				
	a) Time	b) Part film distance				
	c) Kilo voltage peak	d)Milliampherage seconds				

25.	Surgical anaesthesia produced by contechniques is called	mbining two or more drugs or anaesthetic						
	a) Combination of anaesthesia	b) General anaesthesia						
	c) Basal anaesthesia	d) Balanced anaesthesia						
26.	Difference in intensity across the X-ray beam is called							
	a) Edge effect	b) Roentgen effect						
	c) Heel effect	d) Keel effect						
27.	Cat gut is obtained from							
	a) Submucosa of cat intestine	b) Submucosa of cattle intestine						
	c) Submucosa of sheep intestine	d) Mucosa of sheep intestine						
28.	Hypoventilation with retention of carbon	dioxide may result into						
	a) Metabolic acidosis	b) Metabolic alkalosis						
	c) Respiratory acidosis	d) Respiratory alkalosis						
29.	Surgical anaesthesia is achieved under							
	a) Stage I	b) Stage II						
	c) Stage III	d) Stage IV						
30.	The Penetrating power of X-ray beam de	epend on						
	a) Kvp	b) MAs						
	c) FFD	d) FPD						
31.	Name one anesthetic which is in steroid in nature							
	a) Propofol	b) Etomidate						
	c) Althesin	d) Ketamine						
32.	Dilated pupil and fish eye is in which sta	ige of anaesthesia						
	a) Stage I	b) Stage II						
	c) Stage III	d) Stage IV						
33.	The quality of radiograph depend on							
	a) Kvp	b) MA _S						
	c) FFD	d) All of the above						
34.	It is an alpha-2 adrenoceptor agonist use	d for preanaesthetic medication						
	a) Ketamine	b) Thiopentone sodium						
	c) Atrophine	d) Xylazine						
35.	Nystagmus commonly occur in which st	age of anaesthesia in horse						
	a) Stage 1	b) Stage II						
	c) Stage III	d) Stage IV						
36.	Peterson block is a technique used to ana	,						
	a).Eye ball	b) Upper Eyelid						
	c) Lower Evelid	d) All the above						

37.	The most common complication in mid ventral abdominal laprotomy in dog is					
	a) Adhesion	b) Incisional hernia				
	c) Fibrosis of suture line	d) Self mutilation				
38.	Bradycardia and second degree AV block	is caused by over dosage of				
	a) Xylazine	b) Ketamine				
	c) Haothane	d) Thiopentone				
39.	Chronic luxation of patella can be relieved	by				
	a) Middle ligament	b) Medial ligament				
	c) Lateral straight ligament	d) Cruciate ligament				
40.	Failure of cells of vital organ to perform no of oxygen is noticed in	ormal metabolic function despite availability				
	a) Cardiogenic shock	b) Septic Shock				
	b) Hypovolemic shock	d) Distributive Shock				
41.	Dose rate of xylazine in horse is					
	a) 1-2 mg/kg	b) 1.1mg/kg				
	c) 2.2mg/kg	c) 0.1mg/kg				
42.	Succinyl choline is a	muscle relaxant				
	a) Non depolarizing blocking agent	b) Depolarizing blocking agent				
	c) Local analgesic	d) Pain killer				
43.	In a X-ray machine the radiation intensity will be higher in					
	a) Anode	b) Cathode				
	c) Both side	d) None of the above				
44.	Cystography is a contrast radiography of					
	a) Gall bladder	b) Ovary				
	c) Urinary bladder	d) None of the above				
45.	Grid is placed in between					
	a) The x ray tube and the patient	b) The patient and the table				
	c) The patient and the cassette	d) The table and the cassette				
46.	The most radiosensitive body system is					
	a) Nervous system	b) Skeletal system				
	c) Reproductive system	d) Urinary system				
47.	Pulse echo principle is used in					
	a) X-rays	b) Fluroscopy				
	c) Ultra sound	d) Nuclear Scintigraphy				
48.	In X-ray production the energy distribution	n will be				
	a) Heat energy 99% and X-ray 1%	b) X-ray 99% and kinetic energy 1%				
	c) X-ray 50% and kinetic energy 50%	d) X-ray 10% and Heat 90%				

49.	Stationary anode used in which type of X-	ray machine				
	a) Portable machine	b) Ceiling mounted machine				
	c) Dental Machine	d) All the above				
50.	Atropine administration in birds produces-	effect in eye				
	a) Mydriasis	b) Miosis				
	c) Blepharospasm	d) None of the above				
51.	Amputation of horn in goat is performed b	by blocking				
	a) Cornual nerve	b) Infratrochlear				
	c) a and b	d) Ring block				
52.	Drug used for reviving respiratory arrest d	uring anaesthesia in dog is				
	a) Doxapram	b) Dopamine				
	c) Atropine	d) Adrenaline				
53.	A good quality radiograph should have an	image with				
	a) Good definition	b) Good detail				
	c) Proper scale of contrast	d) All the three				
54.	Glucose effect seen in which injectable an	aesthesia				
	a) Propofol	b) Ketamine				
	c) Barbiturate	d) Althesin				
55.	An ionic contrast medium used for urinary system is					
	a) Hypaque	b) Omnipaque				
	c) Amipaque	d) Biligraphin				
56.	Healing by granulation is?					
	a. First intention healing	b. second intention healing				
	c. Third intention healing	d. first intention and second intention				
57.	Which of the following is absorbable synt	hetic suture material?				
	a. Catgut	b. PGA				
	c. Polyglactin	d. Both b & c				
58.	Excessive granulation tissue is called as?					
	a. Proud flesh	b. Keloid				
	c. Cellulitis	d. Ranula				
59.	Fluid of choice for shock?					
	a. RL	b. DNS				
	c. Both a & b	d. none				
60.	Scatter radiation is a major rad examinations.	liation hazard especially during fluoroscopic				
	A) Photo electric effect	b) Compton effect				
	C) Pair production	d) Photo disintegration				

61.	In which form of Xray selenium	is used as a photo conductor				
	A) Xero radiography	b) MRI				
	C) CT scan	d) Scintigraphy				
62.	Detailed soft tissue can be seen i	n which diagnostic method				
	A) MRI	b) CT scan				
	C) Xero radiography	d) Substraction technique				
63.	Contrast radiography of spinal co	ord is				
	A) Myelography	b) Intraosseous vertebral venography				
	C) Dacrocystorhinography	d) none of the above				
64.	The combination of Droperidol a	and Fentanyl citrate is				
	a. Sedivet	b. Innovar vet				
	c. Immobilon LA	d. Revivon LA				
65.	The comination of Etorphine an	d Acepromazine is				
	a. Sedivet	b. Innovar vet				
	c. Immobilon LAd. Revivon LA					
66.	The adverse effect of Xylazine 1	reversed with				
	a. Neostigmine	b. Yohimbine hydrochloride				
	c. doxaprom	d. Naloxone				
67.	The Ketamine is contraindicated	in intraocular surgery due to				
07.	a Increase intraocular pressureb. decrease intraocular pressure					
	c. Increase intraocular	d. Increase blood pressure				
	pressure and blood pressure					
68.	MAC of isoflurane in dogs					
	a 1.4	b. 1.7				
	c. 1.28d.1.3					
69.	reflex is not abo	lished during ketamine anesthesia				
	a. Corneal reflex	b.Palpebral reflex				
	c. Pedal reflex	d.Both a&b				
70.	Paravertebral nerve block in catt	le, the blocked spinal nerves are				
	a. T_{13} , L_1 , L_2 b. T_{18} , L_1 , L_2					
	c. T_{12} , T_{13} , L_1	d. L_1 , L_2 , L_3				
71.	Inflammatory tract having two o	penings				
	a. sinus	b. Abscess				
	c. Tumour	d. fistula				
72.	are the drugs that c	ontrol bleeding.				
	a. Antiseptics	b. Antibiotics				
	c. Styptics	d. antiemetics				

73.	Object film distance is	
	a) 0 cm	b) 100 cm
	c) 8 cm	d) 70cm
74.	Azaperone is best anesthetic fo	or
	a) Cattle	b) Horse
	c) Cats	d) Swine
75.	A local anaesthetic with long d	luration of action is
	a) Lidocaine	b) Bupivacaine
	c) Procaine	d) Cocaine
76.	The principle ingredient in dev	reloping solution is
	a. Hypo	b. Metol
	c. Sodium carbonate	d. Potassium bromide
77.	The best projection for imaging	g the pelvis is
	a. Ventro-dorsal view	b. Lateral view
	b. Cranio-caudal view	d. Dorso ventral view
78.	Acoustic shadowing in ultraso	ound is caused due to
	a. Air	b. Fluid
	c. Calculi	d. All the three
79.	X-rays were discovered by	
	a. Hounsfield	b) Roentgen
	c. Virchow	d. Galileo
80.	The surgery done to improve the	ne body appearance of an animal is called
	a.Elective surgery	b.Cosmetic Surgery
	c.Exploratory surgery	d. None of the above
81.	Hemorrhage control by applica	ation of epinephrine is due to
	A.Vasodilation	b. Vasoconstriction
	c.Both a and b	d.None of the above
82.	The use of hyaluronidase is do	ne to increase anaesthesia
	a.Duration of action	b. Area of spread
	c. Both a and b	d.None of the above
83.	Ketamine administration leads	to
	a.Catalepsy	b.Tachypnea
	c.Bradycardia	d.None of the above
84.	is mostly us	sed to reduce intracranial pressure
	a.Mannitol	b.Dextrose
	c.Rl	d.DNS
85.	Rumenotomy is a form of	surgery
	a.Cosemetic	

	c.Exploratory	d. Orthopaedic
86.	The third degree burns is categories when	
		o. Epidermis
	c. Fascia	d. Muscles
87.	Which is a butyrophenol derivative	
	a. Azaperone	b. Acepromazine
	c. Etorphine	d. Diazepam
88.	Amide group of Local anesthetic	
	a. Lignocaine	b. Procaine
	c. Tetracaine	d. Cocaine
89.	The normal exposure capacity of portable	
	a. 40 mA	b. 35 mA
90.	c. 100 mA Ultrasound scanning image of fluid is	d. 60 mA
90.	a. Hyperechoic	b. Hypoechoic
	c. Isoechoic	c. Anechoic
91.	Misplaced embryonic tissue with hair is	
	a. Dermoid cyst	b.Urachal cyst
	c. Ranula	d. Dentigerous cyst
92.	Drug used as cardiac stimulation	
	a. Lignocaine	b) Naloxone
	c. Dopamine	d) Doxapram
93.	Flumazenil is used for reversal of	· ·
	a. Diazepam	b. Xylazine
	c. Acepromazine	d. Ketamine
94.	Grid is used when the thickness of body	
	a. 10cm	b. 15cm
0.5	c. 20 cm	d. 6 cm
95.	Second gas effect is noticed whenused.	inhalation anesthetic agent is
	a. Isoflurane	b. Nitrous oxide
		d. Halothane
06	c. Sevoflurane The exerts used for starilization of inenia	
96.	The agents used for sterilization of inania	ŭ
	a. Sterilization	b. Antiseptic
0.7	c. Disinfectant	d. Asepsis
97.	Epulis are tumors of	
	a. Tooth	b. Gum
	c. Enamel	d. Soft palate
98.	Antiseptic that is active in organic matter	
	a. Tincture iodine	b acriflavin

c. Kmno₄

d. Povidone iodine

99. Ideal age for disbudding in calves is

a. 5 days

b. 5-10 days

c. 5 - 15 days

d. 10 - 15 days

100. KVP setting in an x-ray machine decides the

a. Quality of x-rays

b. Quantity of x-rays

c. Direction of x-rays

d. intensity of ionization

Answers

1.D	11.C	21.C	31.C	41.B	51.C	61.A	71.D	81.B	91.A
2. A	12.B	22.C	32.D	42.B	52.A	62.A	72.C	82.B	92.C
3. D	13.C	23.B	33.D	43.B	53.D	63.A	73.A	83.A	93.A
4.C	14.A	24.B	34.D	44.C	54.C	64.B	74.D	84.A	94.A
5.C	15.B	25.D	35.B	45.B	55.A	65.C	75.B	85.C	95.B
6.A	16.C	26.C	36.A	46.C	56.B	66.B	76.B	86.D	96.C
7 D	17.C	27.C	37.B	47.C	57.D	67.A	77.A	87.A	97.B
8 B	18.C	28.C	38.A	48.A	58.A	68.C	78.C	88.A	98.B
9. B	19.A	29.C	39.B	49.C	59.A	69.D	79.B	89.B	99.B
10.A	20.D	30.A	40.B	50.B	60.B	70.A	80.B	90.C	100.A