NOTE : DO NOT BREAK THE SEAL UNTIL YOU GO THROUGH THE FOLLOWING INSTRUCTIONS

M.V.Sc. Entrance Test – 2012 QUESTION BOOKLET

Paper — I

Roll No.

(Enter your Roll Number in the above space)

Booklet No.

A 200054

Time Allowed: One Hour and Forty minutes

Max. Marks: 100

INSTRUCTIONS:

- 1. Use only BLACK or BLUE Ball Pen.
- 2. All questions are COMPULSORY.
- 3. Check the BOOKLET thoroughly.

IN CASE OF ANY DEFECT - MISPRINTS, MISSING QUESTION/S OR DUPLICATION OF QUESTION/S, GET THE BOOKLET CHANGED WITH THE BOOKLET OF THE SAME SERIES. NO COMPLAINT SHALL BE ENTERTAINED AFTER THE ENTRANCE TEST.

- 4. Before you mark the answer, fill in the particulars in the ANSWER SHEET carefully and correctly. Incomplete and incorrect particulars may result in the non-evaluation of your answer sheet by the technology.
- 5. Write the SERIES and BOOKLET No. given at the TOP RIGHT HAND SIDE of the question booklet in the space provided in the answer sheet by darkening the corresponding circles.
- 6. Do not use any **eraser**, **fluid pens**, **blades** etc., otherwise your answer sheet is likely to be rejected whenever detected.
- 7. After completing the test, handover the ANSWER SHEET to the Invigilator.

SEAL

1.	Grou	up of cells morphologically similar a	nd ph	ysiologically identical is known as				
	(1)	Tissue	(2)	Organ				
	(3)	System	(4)	Histocytes				
2.	Bloc	od vessels are internally lined by						
•	(1)	Ciliated epithelium	(2)	Columnar epithelium				
	(3)	Squamous epithelium	(4)	Striated epithelium				
3.	Con	nective tissue called Glisson's capsu	le is i	found in				
	(1)	Testis of rabbit	(2)	Liver of rabbit and pig				
	(3)	Spleen	(4)	Pancreas				
4.	The	antlers of a deer is made of, one of t	he fo	llowing, named				
	(1)	Cartilage	(2)	Corneum				
	(3)	Bone	(4)	Sesamoid bone				
5.	During hibernation the body temperature of the warm blooded animal remains							
	(1)	Same as that of surroundings.						
	(2)	Normal because the accumulated fat under the skin prior to hibernation.						
	(3)	Normal because skin can regulate it.						
	(4)	(4) Slightly higher than that of the surroundings due to the combined action by skin and the deposited fat beneath it.						
6.	The	e pygostyle bone is						
	(1)	Present in skull of bird	(2)	Last caudal vertebrae of bird				
	(3)	Last caudal vertebrae of frog	(4)	Last caudal vertebrae of rabbit				
7.	The	The major constituent of vertebrate bone is						
	(1)	Calcium phosphate	(2)	Sodium chloride				
	(3)	Potassium hydroxide	(4)	Calcium carbonate				
8.	The	e functional unit of the contractile sy	ster	in the striped muscle is				
	(1)	Z-band	(2)	A-band				
	(3)	Myofibrils	(4)	Sarcomere				

9.	Wav	ve of muscle contraction which push	es foc	d along the alimentary canal is known as
	(1)	Absorption	(2)	Digestion
	(3)	Peristalsis	(4)	Secretion
10.	Whi	ich one of the following tissues, is ha	aving	branching fibres?
	(1)	Cardiac muscle	(2)	Cartilage
	(3)	Smooth muscle	(4)	Skeletal muscle
11.	Ten	dons and ligaments are made of		•
	(1)	Connective tissue	(2)	Epithelial tissue
	(3)	Muscular tissue	(4)	Skeletal tissue
12.	Wh	ich one of the following is responsib	le for	the regeneration of cartilage?
	(1)	Collagenous fibres	(2)	Blood vessel
	(3)	Perichondrium	(4)	Matrix
13.	The	bone marrow is composed of		
	(1)	Muscle fibres and adipose tissue		
	(2)	Areolar tissue and adipose tissue		
	(3)	Adipose tissue and calcified cartil	age	
	(4)	Adipose tissue, areolar tissue and	blood	lvessels
14.	Wh	ich of the following forms the muscl	.e?	
	(1)	Neurofibril	(2)	Neurilemma
	(3)	Myofibril	(4)	Sarcolemma
15.	Bol	us of food undergoing digestion in a	cidic	medium media in stomach is called
	(1)	Acidified bolus	(2)	Bile bolus
	(3)	Chyle	(4)	Chyme
16.	One	e of the following is specific function	of th	e liver. Mark it
	(1)	Excretion	(2)	Glycogenolysis
	(3)	Digestion	(4)	Histolysis

17.	Dige	estion of carbohydrates is affected by	7					
	(1)	Erepsin	(2)	Steapsin				
	(3)	Pepsin	(4)	Amylopsin				
18.	Nan	ne the main component of the food, i	n the	absence of that one cannot live				
	(1)	Carbohydrates	(2)	Mineral salts				
	(3)	Proteins	(4)	Vitamins				
19.	Whi	ich of the following processes makes	direc	t use of oxygen?				
	(1)	Glycolysis	(2)	Fermentation				
	(3)	Kreb's citric acid cycle	(4)	Electron transport				
20.	The	impulse for voluntary muscles for fe	orced	breathing starts in				
	(1)	Medulla (Pons varoli)	(2)	Vagus nerve				
	(3)	Cerebral hemisphere	(4)	Spinal cord				
21.	Rat	e of respiration is directly affected b	y					
	(1)	Concentration of oxygen	(2)	Concentration of carbon dioxide				
	(3)	Oxygen in trachea	(4)	Diaphragm expansion				
22.	The	The formation of blood cells in bone marrow is called						
	(1)	Erythroblastosis	(2)	Haemolysis				
	(3)	Haemopoiesis	(4)	Lymphopoiesis				
0.9	۸	active milk aland typically contains						
23.		active milk gland typically contains Cristae	(2)	Simple columnar mucous epithelium				
	(1) (3)	Clusters of alveoli	(4)	Villi				
24.		action of two neurons is called						
44.	(1)	Synapse	(2)	Synapsis				
	(3)	Junction	(4)	Synapticula				
	, ,							
25.	The	e entire nerve is enclosed by a white	thick	sheath of a connective tissue, called				
	(1)	Endoneurium	(2)	Epineurium				
	(3)	Neurilemma	(4)	Perineurium				

26.	riat	Flat body of animals of phytum Flatyhelimitines enables the animal				
	(1)	To compensate for their primitive	digest	ive and excretory system		
	(2)	To adjust for their parasitic mode	of life			
	(3)	To reproduce asexually				
	(4)	To help in crawling				
27.	Blac	dder worm is also known as				
	(1)	Sporocyst	(2)	Cystecercus		
	(3)	Onchosphere	(4)	Hexacanth		
28.	Ces	todes are lacking of one system				
	(1)	Digestive	(2)	Excretory		
	(3)	Reproductive	(4)	Nervous		
29.	Rou	indworms differ from flatworms in	having			
	(1)	Pseudocoel	(2)	Longitudinal nerve cord		
	(3)	Circulatory system	(4)	Flame cells		
30.		ich one of the following animals o	an dig	gest milk by the presence of rennin in its		
	(1)	A calf	(2)	A cow		
	(3)	Any mammal	(4)	A man		
31.	Dig	estion of starch takes place in				
	(1)	Stomach and duodenum	(2)	Buccal cavity and duodenum		
	(3)	Buccal cavity and oesophagus	(4)	Duodenum only		
32.	The	e essential mineral for the formation	n of bo	ody protein is		
	(1)	Sodium	(2)	Sulphur		
		Iron	(4)	Potassium		
	(3)					
33.	• •		is esse	ential for clotting or coagulation of blood is		
33.	• •		is esse (2)	ential for clotting or coagulation of blood is		

34.	Vita	amin B12 is helpful		
	(1)	In the absorption of fats	(2)	To stimulate the liver
	(3)	To stimulate the bone marrow	(4)	To increase life span of RBC
35.	Pell	agra is caused due to the deficiency	of	
	(1)	Thiamine	(2)	Ascorbic acid
	(3)	Niacin	(4)	Calciferol
36.	Syn	thesis of vitamin A takes place in		
	(1)	Blood	(2)	Spleen
	(3)	Pancreas	(4)	Liver
37.	In g	grazing cattles the major portion of	food, o	cellulose is
	(1)	Passed out undigested	(2)	Digested by animal itself
	(3)	Utilized directly as such	(4)	Digested by intestinal bacteria
38.		ease of gastro-intestinal secretion a out by	and m	ovement after ingestion of food is brought
	(1)	Sympathetic nervous system	(2)	Parasympathetic nervous system
	(3)	Central nervous system	(4)	Thyroid membrane
39.	Çov	w's milk is slightly yellowish in colo	ur du	e to the presence of
	(1)	Riboflavin	(2)	Carotin
	(3)	Xanthophylls	(4)	Xanthophylls and carotin
40.		e stomach of ruminants is mainly et is missing?	divide	ed into four parts, but in camel which one
	(1)	Abomasums	(2)	Omasum
	(3)	Recticulum	(4)	Rumen
41.	Liv	re stock includes		
	(1)	Cow, ox, buffalo, goat, sheep, pig	and h	orse
	(2)	Cow, ox, buffalo, horse and fowl.		
	(3)	Cow, ox, goat, pig, fowl, horse		
	(4)	Cow, buffalo, ox, fowl, sheep, pig	and h	orse

42.	Secr	etin hormone is secreted by		
	(1)	Liver	(2)	Pancreas
	(3)	Intestine	(4)	Duodenum
43.	The	lymph differs from the blood in hav	ving	
	(1)	Blood with more RBC and less WI	3C	
	(2)	Blood without plasma		
	(3)	Plasma without proteins		
	(4)	Blood with no RBC but more WBC	C	
44.	In w	which form the carbon dioxide is car	ried i	n the blood?
	(1)	Sodium carbonate	(2)	Sodium bicarbonate
	(3)	Potassium carbonate	(4)	Magnesium bicarbonate
45.	The	type of leucocytes which attack an	d eng	ulf Bacteria in the blood are
	(1)	Neutrophils	(2)	Acidophils
	(3)	Basophils	(4)	Monocytes
46.	Exc	retion in the form of uric acid and u	ırates	s in birds, is helpful in
	(1)	Conserving body heat	(2)	Eliminating excess water
	(3)	Conserving body water	(4)	Eliminating body water
47.	Wh	ich one of the following hormones p	romo	tes reabsorption of water?
	(1)	Calcitonin	(2)	Vasopressin
	(3)	Oxytocin	(4)	Relaxin
48.		absorption of useful substances bac urs in	ck int	to the blood from the filtrate in a nephron
	(1)	Proximal convoluted tubule	(2)	Loop of Henle
	(3)	Distal convoluted tubule	(4)	Collecting duct
49.	Blo	ood clotting can be prevented by the	use o	of Potassium oxalate. It is due to
	(1)	Checking of conversion of fibrino	gen in	nto fibrin
	(2)	Inactivation of all factors for bloo	d coa	gulation
	(3)	Neutralization of acidic medium		
	(4)	Removal of free calcium ions		

50.	Hear	rt beats are accelerated by		
	(1)	Cranial nerves and acetylcholine	(2)	Sympathetic nerves and epinephrine
	(3)	Cranial nerves and adrenalin	(4)	Sympathetic nerves and acetylcholine
51.	Whi	ch one of the following is responsib	le for t	the control of reflex action?
	(1)·	Motor nerves	(2)	Sensory nerves
	(3)	Central nervous system	(4)	Sympathetic nervous system
52.	The	chemical causing the transmission	of ne	rve impulse across synapsis is
	(1)	Acetylcholine	(2)	Choline esterase
	(3)	Choline	(4)	Acetic acid
53.	Wh	en degeneration of nerve cells occur	s whi	ch will be affected first?
	(1)	Dendrites	(2)	Motor and plates
	(3)	Nissil granules	(4)	Schwann cells
5 4.	In t	the chemistry of vision in mammals	the p	hotosensitive substance is called
	(1)	Sclerotin	(2)	Rhodopsin
	(3)	Retinol	(4)	Melanin
55.		rmone responsible for the control of a female is	f the d	levelopment of secondary sexual characters
	(1)	Estrogen	(2)	Androgen
	(3)	Progestrin	(4)	Oxytocin
56 .	Ho	ormone involved in the discharge of	pancr	eatic juice in mammals is
	(1)		(2)	
	(3)		(4)	Secretin
57		hich of the following is a non-infectorich in starch?	tious	disease caused due to overfeeding or a diet
	(1)		(2)	Actinomycosis
	(3)	· · · · · · · · · · · · · · · · · · ·	(4)) Aspergillosis

58.	If there is deficiency of antidiuretic hormone (ADH), its effect would be						
	(1)	The volume of urine will decrease					
	(2)	The volume of urine will increase					
	(3)	The pH of urine will change from 4.8 to 8.0					
	(4)	Secretion of urochrome will take pla	ace				
59.	Hor	mones thyroxin, adrenaline and the	pign	ent melanin are formed from			
	(1)	Tryptophan	(2)	Glycine			
	(3)	Tyrosine	(4)	Proline			
60.	In r	nost of the mammals the testes are e	xtra	abdominal in scrotal sacs, because			
	(1)	No sperm will be produced if testes	are	abdominal			
	(2)	In the scrotum the temperature is s	sligh	tly lower which help in sperm formation			
	(3)	There is little space in the abdomin	al ca	vity for the testis.			
	(4)	Of all the above three					
61.	Cryptochidism is a condition in which testes are						
	(1)	Unable to descend into scrotal sacs	(2)	Unable to produce sperms			
	(3)	Surgically removed	(4)	Not developed in foetus			
62.	Alla	antois of the mammalian embryo help	os in				
	(1)	Respiration	(2)	Excretion			
	(3)	Protection	(4)	Nutrition			
63.	In t	he development of chick which struct	ures	are formed from splanchnopleure?			
	(1)) Vertebral column and spinal cord					
	(2)	Muscles and connective tissue of digestive tube					
	(3)	Brain and its coverings					
	(4)	Urinogenital organs		,			
64.		accomplish fertilization sperm acro n is Lysin, which is the other one?	some	e needs to produce two enzymes, one o			
	(1)	Hyaluronidase	(2)	Protease			
	(3)	Kinase-kinase	(4)	None of these			

65.	Grov	wth due to the increase in size is call	led	
	(1)	Multiplicative growth	(2)	Auxentic growth
	(3)	Accretionary growth	(4)	All above
66.	Whi	ch of the following is the environmen	ntal t	heory of aging?
	(1)	Metabolic rate affects the aging		
,	(2)	Environmental and hereditary fact	ors c	ontrol the aging
	(3)	The radiation affects the gene musomatic cells	utatio	on resulting in the DNA transcription in
	(4)	The rate of aging and age is contro	lled b	y the aging gene
67.	Whi	ich is a fungal disease of poultry?		
	(1)	Thrush	(2)	Pox
	(3)	Cholera	(4)	Ranikhet
68.	Coc	cidiosis in poultry is caused by		
	(1)	Virus	(2)	Protozoan parasite
	(3)	Nematode parasite	(4)	Tapeworm
69.	Lac	ctation in sterile cows is induced by		
	(1)	Vitamin B12	(2)	Gonadotropin
	(3)	Stilbesterol	(4)	Vitamin K
70.	Th	e meat of buffalo is known as		
	(1)	Beef	(2)	Mutton
	(3)	Pork	(4)	White meat
71.	Th	e antibiotics obtained from Strepton	ıyces	are
	(1)	Chloramphenicol, Erythromycin	(2)	Leucomycin, Neomycin
	(3)	Novobiocin, Spiramycin	(4)	All of these
72.	. Ag	gar is used as a medium for bacterial	l cult	ure. Agar is obtained from
	(1)		(2)	- ·
	(3)		(4)	Mango

73. Microbes are used in the industrial manufacture of							
	(1)	Beer and wines	(2)	Industrial alcohol			
	(3)	Butter and cheese	(4)	All of these			
74.	Wh	en yeast ferments glucose the produ	cts ar	re			
	(1)	Ethanol and water	(2)	Methanol and carbon dioxide			
	(3)	Ethanol and carbon dioxide	(4)	Water and carbon dioxide			
75.		covirus belonging to family Picorn ectious disease in birds called	aviri	dae is the causative agent of an acute			
	(1)	Avian encephalomyelitis	(2)	Avian pasteurrellosis			
	(3)	Avian tuberculosis	(4)	Avian influenza			
76.	Bac	illary haemoglobinuria, an acute inf	ectio	us disease of cattle is known as			
ı	(1)	Wool sorters disease	(2)	Red water disease			
	(3)	Sarcoma	(4)	Epidemic tremor			
77.	Car	bon monoxide is toxic to vertebrates	beca	use it			
	(1)	saturates the plasma					
	(2) forms a stable compound with haemoglobin						
	(3) prevent passage of red corpuscles through the capillaries						
	(4)	cannot diffuse out of the lungs					
78.	Which of the procedures be adopted to minimize pollution caused through agriculture inputs?						
	(1)	(1) Total ban on the use of compounds with long residual effect					
	(2)	(2) Creation of barriers to prevent flow of chemicals in water bodies					
*	(3)	(3) Plant protection by biological control, wherever possible					
	(4)	All of these					
79.		o developed methods of inoculation o		gainst causative organisms of anthrax ving many lives			
	(1)	William Harvey	(2)	Karl Landsteiner			
	(3)	Louis Pasteur	(4)	Konard Bloch			

80.	Thos	se bacteria designated microaerophi	lic ar	e distinguished by their ability to grow
	(1)	in high concentrations of salt	(2)	in low concentrations of oxygen
	(3)	without ATP or glucose	(4)	only in the presence of viruses
81.	All t	he following characteristics can be f	found	in fungi except
	(1)	they lack chlorophyll		
	(2)	they have a heterotrophic mode of	nutri	tion
	(3)	they are generally motile		
	(4)	they are unicellular or multicellula	ar	
82.	Pigs exce		n infe	ection by each of the following parasites
	(1)	Echinococcus granulosus	(2)	Taenia solium
	(3)	Ascaris lumbricoides	(4)	Trichinella spiralis
83.		se infections that come on rapidly cribed as	and	are accompanied by severe symptoms are
	(1)	chronic	(2)	opportunistic
	(3)	acute	(4)	asymptomatic
84.		thrax spores are extremely resistarused in	it to	environmental changes and therefore may
	(1)	biological warfare	(2)	viral research
	(3)	biochemical mutations	(4)	industrial processes
85.		e dark-field microscope differs fron d microscope contains a special	a the	bright-field microscope because the dark-
	(1)	ocular	(2)	fine adjustment
	(3)	condenser	(4)	objective lens.
86.	Ch	lorhexidine and hexachlorophene sl	nare t	he characteristic of being
	(1)	most useful against viruses	(2)	phenol derivatives
	(3)	sterilizing agents	(4)	antibiotics

MV	Sc/20)12/Г	14				
	(4)	Schizogony occurs in the go	onads to prod	uce gametes			
	(3)	Both mitosis as well meiosi	s occurs in th	ne gonads to produce the gametes			
	(2)	Only meiosis occurs in the	gonads to pro	oduce gametes			
	(1)	Only mitosis occurs in the	gonads to pro	duce gametes			
92.	Whi	Which of the following statements is correct?					
	(4)	differentiation is fully reve	rsible in all c	ells of a frog			
	(3)	3) nuclei of differentiated cells have different genes than zygote nuclei have					
	(2)	nuclei of embryonic cells ca	n be totipote	nt			
	(1)	nuclei of adult cells are toti	ipotent				
91.	The	The cloning experiments on sheep, frogs, and rice showed that					
	(4)	Takes place each time a de	hydrogenatio	on occurs			
	(3)	Occurs each time a molecul	le of ATP is n	nade			
	(2)	Takes place in the citric ac	id cycle				
	(1)	Results from the breakdow	n of ATP				
90.	Inc	In carbohydrate metabolism in cells, production of carbon dioxide					
	(4)	Oxidize one liter of water c	ompletely				
	(3)	Raise a liter of water throu	gh one degre	e centigrade			
	(2)	Change one liter of water t	o steam				
	(1)	Change one liter of water t	o one kilogra	m of ice			
89.	A ca	alorie is the amount of energ	y required to				
	(4)	Acetone decarboxylase					
	(3)	Betahydroxybutyric acid de	ehydrogenase				
	(2)	Beta-hydroxymethylglutur	yl CoA synth	etase			
	(1)	Thiolase					
88.		In the first step of acetoacetic formation, two molecules of acetyl-CoA condense to form acetoacetyl-CoA. This reaction is catalysed by					
	(3)	Citric acid	(4)	Oxaloacetic acid			
	(1)	Ketoglutaric acid	(2)	Succinic acid			
87.		tyl CoA enters the citric acid					

93.	Duri	During mitotic cell division, the centromere splits at the stage of			
	(1)	Prophase	(2)	Anaphase	
	(3)	Telophase	(4)	Metaphase	
94.	When a hybrid black pig is crossed with a white pig, the offsprings are:				
	(1)	Black	(2)	White	
	(3)	Some black and some white	(4)	Grey	
95.	Colour vision is sex-linked character and its gene is present in:				
	(1)	Homologous part of Y-Chromosome	(2)	Non-homologous part of Y-Chromosome	
	(3)	X chromosome	(4)	Both X and Y chromosomes	
96.	The names of the nucleic acids – ribonucleic acid and deoxyribonucleic acid are related to the :				
	(1)	Purines present in each	(2)	Base composition of each	
4	(3)	Pyrimidines present in each	(4)	Sugars present in each	
97.	Occurrence of four horns instead of two in goat is an example of				
	(1)	Continuous variation	(2)	Discontinuous variation	
	(3)	Inheritance variation	(4)	Acquired variation	
98.	Gene frequencies in a population will remain constant only if				
	(1) The population is large and mating is nonrandom				
	(2)	Mating is random and mutations do not occur			
	(3)	The population is small and mutations do occur			
	(4)				
99.	Bovine trichomoniasis, a protozoan veneral disease of cattle is characterized by				
	(1)	I all family month of programmy			
	(2)	Fever, diarrhoea and buccal erosions			
	(3)	Signs of abdominal pain, frothing from mouth and diarrhoea			
	(4)	(4) Inflammation of udder and discolouration of milk			
100	. Ma	Maximum milk in India is given by a buffalo breed known as			
	(1)		(2)	Nili Ravi	
	(3)	Murrah	(4)	Surti	

Space For Rough Work

