	DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO			
	COMBINED COMPETITIVE (PRELIMINARY) EXAMINATION, 2013			
Seri	al No. ANIMAL HUSBANDRY &			
ben	VETERINARY SCIENCE			
	Code No. 02			
Time	Allowed : Two Hours Maximum Marks : 300			
	Auowea : 1wo Hours			
	INSTRUCTIONS			
1.	IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.			
2.	ENCODE CLEARLY THE TEST BOOKLET SERIES A , B , C OR D AS THE CASE MAY BE IN THE APPROPRIATE PLACE IN THE RESPONSE SHEET.			
3.	You have to enter your Roll Number on this Your Roll No.			
	Test Booklet in the Box provided alongside.			
	DO NOT write anything else on the Test Booklet.			
4.	4. This Booklet contains 120 items (questions). Each item comprises <i>four</i> responses (answers). You will select <i>one</i> response which you want to mark on the Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.			
5.	In case you find any discrepancy in this test booklet in any question(s) or the Responses, a written			
	representation explaining the details of such alleged discrepancy, be submitted within three days, indicating the Question No(s) and the Test Booklet Series, in which the discrepancy is alleged. Representation not received within time shall not be entertained at all.			
6.	You have to mark all your responses ONLY on the separate Response Sheet provided. See directions in the Response Sheet.			
7.	-			
8.	Before you proceed to mark in the Response Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Response Sheet as per instructions sent to you with your Admit Card and Instructions.			
9.	While writing Centre, Subject and Roll No. on the top of the Response Sheet in appropriate boxes use "ONLY BALL POINT PEN".			
10.	After you have completed filling in all your responses on the Response Sheet and the examination has			
	concluded, you should hand over to the Invigilator only the Response Sheet. You are permitted to take away			
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ROUGH WORK

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1.	Gestation period in goat is : (A) 148-156 days (C) 175-180 days	. ,	120-126 days 90-95 days
2.	Which of the following is a dual purpose cattle brea(A) Kankrej(C) Kangayam	(B)	Gir Khillar
3.	Genetically two traits are related due to :(A) Multiple alleles(C) Polygenes		Pleiotropism All the above
4.	Which of the following is a water soluble vitamin ?(A) A(C) D	(B) (D)	
5.	FSH and LH hormones are released from the follow(A) Adrenal cortex(C) Anterior pituitary	(B)	organ : Ovary Posterior pituitary
6.	The amount of heat resulting from the complete oxid(A) Digestible energy(C) Net energy	(B)	on of unit weight of a food is known as : Gross energy Metabolizable energy
7.	Adult female goat is known as :(A) Doe(C) Heifer	• •	Ewe Steer
8.	Vitamin B ₁₂ is also called as : (A) Thiamine (C) Riboflavin		Cyanocobalamin Cobalamin
9.	Yellow coloration of cow milk is due to:(A) Xanthene(C) Flourescein	` ´	Carotene Casein
10.	Skim milk contains :(A) Less than 0.1% fat(C) More than 30% protein	` '	1% fat Maximum of 5% SNF
11.	Which of the following vitamins is normally syntherrequired normal dietary nutrient ?(A) Vit. K		in poultry and hence not considered a Vit. C
	(C) Vit. A	• •	Vit. E
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12.	About 50 per cent of total meat in India is produce(A) Ruminante(C) Piggery	(B)	: Poultry Fishery
13.	Percentage of nitrogen in crude protein is about :(A) 12(C) 26	(B) (D)	
14.	Chevon is the name of meat of :(A) Sheep(C) Cow	` ´	Goat Pig
15.	 With reference to genes for milk yield, consider the (a) Only females carry the genes (b) It is sex influenced Which of the statements given above is/are correct (A) (a) only (C) Both (a) and (b) 	? (B)	wing : (b) only None of them
16.	Organisms causing Babesiosis live in : (A) WBCs (C) RBCs	` '	Platelets All the above
17.	 Consider the following statements : (a) India has about 75% of world's buffalo populat (b) India has about 50% of world's cattle populat (c) India has about 10% of world's sheep populat Which of the statements given above is/are correct (A) (a) only (C) (c) only 	ion tion ? (B)	(b) only None of them
18.	The optimum dry period recommended for annual (A) 1 month (C) 3 months	(B)	ng is : 2 months 4 months
19.	Neutrophil and Lymphocyte counts of normal healt (A) 60 and 30 (C) 30 and 30	(B)	ttle is : 40 and 10 30 and 60
20.	White Leghorn breed of poultry is a/an :(A) Mediterranean breed(C) English breed	` '	American breed Asiatic breed

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21.	1. As per Prevention of Food Adulteration Act, the fat content of milk powder should not be less		
	than:		
	(A) 42%	` '	26%
	(C) 12%	(D)	4%
22.	Which of the following species has the highest dress	sing	percentage ?
	(A) Sheep	(B)	Goat
	(C) Cattle	(D)	Pig
23.	In which method of selection, minimum standard is		•
	(A) Tandem method	` '	Selection Index
	(C) Independent culling level	(D)	Sire index
24.	The correct ascending order of annual genetic gain		01
	(A) Cattle, sheep, pig, poultry	(B)	Poultry, pig, sheep, cattle
	(C) Poultry, sheep, pig, cattle	(D)	Poultry, cattle, sheep, pig
25.	 Consider the following statements : (a) Selection creates new gene (b) Desired gene frequency increases by selection Which of the statements given above is/are correct 		
	(A) (a) only	(B)	(b) only
	(C) Both (a) and (b)	• •	None of them
		(D)	
26.	'Lard', an animal fat used as cooking fat is obtaine		
	(A) Pig	(B)	Fish
	(C) Sheep	(D)	Poultry
27.	1	U	
	(A) Jaffarbadi	(B)	Surti
	(C) Nagpuri	(D)	Mehsana
28.	When the selection differential is 200 kg and herita generation will be :	bitity	of the trait is 0.4 the genetic gain per
	(A) 280 kg	(B)	80 kg
	(C) 240 kg	(D)	40 kg
29.	A disease commonly found with regularity in a part	icula	r locality is known as :
	(A) Endernic	(B)	Epidemic
	(C) Pandemic	(D)	Epizootic
30.			
	(A) Female calf born co-twin to a male calf	(B)	Male calf born co-twin to a female calf
	(C) Female calf born co-twin to a female calf	(D)	Male calf born co-twin to a male calf
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31.	Sunandini cattle breed developed in Kerala is a cro(A) Brown Swiss and local cattle(C) Jersey and local cattle	(B)	etween : HF and local cattle Red Dane and local cattle
32.	An exotic breed of pig with drooping ear is :(A) Large white Yorkshire(C) Hampshire	` '	Landrace Berkshire
33.	The digestible crude protein content fodder maize(A) 10-12%(C) 7-8%	(B)	out : Zero % 1-2%
34.	Daily digestible crude protein requirement of cattle (A) 0.2 kg (C) 3.0 kg	(B)	hing 300 kg is : 2 kg 1.0 kg
35.	Biological value of egg protein is :(A) 80%(C) 94%	` '	100% 75%
36.	A good silage should have a pH of : (A) 6.2 - 6.4 (C) 2.3 - 2.5	• •	8.2 - 8.6 4.2 - 4.5
37.	Unhealthy hair and wool in livestock is generally de(A) Zinc(C) Sodium	(B)	the deficiency of : Calcium Phosphorus
38.	In cattle, the bypass protein bypasses the :(A) Large intestine(C) Small intestine	` '	Rumen Entire digestive system
39.	Standard lactation length for standardizing the milk(A) 270 days(C) 330 days	(B)	rd is : 365 days 305 days
40.	 An ideal calf starter ration contains : (A) 20% DCP and 70% TDN (C) 70% DCP and 20% TDN 	` '	50% DCP and 50% TDN 40% DCP and 50% TDN
41.	The ratio of total number of services to number of a(A) Fertility rate(C) Conception rate	(B)	als pregnant/calved is known as : Birth rate Service rate

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42.	The Incubation period of Foot and Mouth Disease(A) One month(C) 15-20 days	(B)	Six months 3-4 days
43.	Which of the following breeds of buffaloes produc(A) Bhadawari(C) Murrah	(B)	gest fat percentage ? Surti Nagpuri
44.	Dry matter requirement of a lactating buffalo weigh (A) 30 kg (C) 10 kg	(B)	00 kg is : 5 kg 15 kg
45.	The drug used for treating bovine ketosis is :(A) Sodium bicarbonate(C) Sodium chloride	` ´	Sodium carbonate Sodium propionate
46.	The fat deposits in the lean tissue of meat is called :(A) Lumping(C) Adiposing	(B)	Bubling Marbling
47.	The milk product which is obtained by draining wheteo (A) Yoghurt(C) Skimmed milk	(B)	er coagulation of milk is : Cheese Paneer
48.	The protein content of large poultry egg is about : (A) 14-15 gm (C) 1-2 gm		6-7 gm 10-12 gm
49.	The ideal temperature during first week of broodin (A) 90 °F (C) 100 °F	(B)	hicks is : 95 ^o F 85 ^o F
50.	Gestation length in pig is about :(A) 3 months(C) 5 months	` '	4 months 6 months
51.	Freshly drawn milk has pH in the range of : (A) $7.0 - 7.2$ (C) $6.5 - 6.7$. ,	7.4 – 7.6 6.0 – 6.2
52.	The most commonly used test to detect bacteria in(A) Standard plate count(C) Butyrometer test	(B)	is : Alcoholic test Gerber method

53. The recommended exotic level of inheritance of cross breeding Indian dairy cattle regions of the country is :			reeding Indian dairy cattle, for most			
	(A) 75%	(B)	50%			
	(C) 87.5%	` '	95%			
54.	Modern commercial poultry layers starts to lay egg at the age of around :					
	(A) 20 weeks	(B)	6 weeks			
	(C) 30 weeks	(D)	40 weeks			
55.	The heritability of egg weight in poultry is :					
	(A) high	(B)	low			
	(C) zero	` ´	1.0			
56.	Which one of the following methods is not used for (A) Identification of rudimentary testes in cloaca	r sexi	ng of chicks ?			
	· · · · ·					
	(B) Rapid and slow feathering					
	(C) Barring and non-barring					
	(D) Comb shape					
57.	The feed cost as the percentage of total cost of com					
	(A) 60-70	(B)	40-50			
	(C) Above 90	(D)	30-40			
58.	The major component of egg shell is :					
	(A) Calcium phosphate	(B)	Calcium chloride			
	(C) Calcium carbonate	(D)	Dicalcium phosphate			
59.	Swine fever in pigs is caused by the virus belonging	g to th	ne genus :			
	(A) Influenza virus	(B)	Vesiculovirus			
	(C) Peste virus	(D)	Calcivirus			
60.	The Incubation period in Haemorrhagic Septicaem	ia is a	about :			
	(A) 30 days	(B)	60 days			
	(C) 2 days	(D)	120 days			
61.	Which one of the following diseases is non contagi	ous?				
	(A) Black quarter	(B)	Bovine pleuropneumonia			
	(C) Echthyma		Ranikhet disease			
62.	Which of the following is not the species of Theileria causing organism in cattle ?					
	(A) T. bovis		T. parva			
	(C) T. annulata		T. mutans			
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63. Which of the following is not an indigenous poultry breed?						
		Aseel		Busra		
	(C)	Karaknath	(D)	Sahil		
64.		sardale sheep is a cross between :				
	(A)	Kashmiri Merino and Hissar breeds	(B)	Bikaner and Rambouillet		
	(C)	Rambouillet and Marwari	(D)	Australian Merino and Bik	aner	
65.	Whi	ich of the following is correct with regard to the	diplo	oid chromosome number ?		
	(A)	Same in sheep and goat	(B)	Same in cattle and goat		
	(C)	Same in buffalo and sheep	(D)	Same in sheep and cattle		
66.	Whi	ich State is the natural habitat of Jamnapuri goa	t bree	ed?		
	(A)	Gujarat	(B)	Uttar Pradesh		
	(C)	North East India	(D)	Kashmir		
67.	Whi	ich of the following statements is true in cattle?				
	(A)	The incisor teeth is absent in the upper jaw				
	(B)	The upper jaw has four incisors in adults				
	(C)	Upper and lower jaws have four incisors each				
	(D)	Upper and lower jaws have two incisors each				
68.	Pers	sistent Corpora Intea may be observed in :				
	(A)	Pyometra	` ´	Mummified fetus		
	(C)	Mucometra	(D)	All the above		
69.		sider the following with respect to Marek's dise				
	(a) Marek's disease is a lympho proliferative disease of chickens.					
	• •	The Marek's disease virus belongs to the famil	•	troviridae.		
		ich of the statements given above is/are correct				
		(a) only		(b) only		
	(C)	(a) and (b)	(D)	None of them		
70.		State which has the maximum sheep population				
		Rajasthan		Haryana		
	(C)	Punjab	(D)	Uttar Pradesh		
71.		neep breed of Himalayan region is :	_			
	• •	Lohi	` ´	Chokla		
	(C)	Gaddi	(D)	Shahabadi		
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- 72. In methylene blue reduction test for testing the quality of semen, a good semen should reduce the color in:
 - (A) less than one minute (B) 60 minutes (D) 10 seconds
 - (C) 10-20 minutes
- 73. Consider the following statements with respect to immunity :
 - (a) Passive acquired immunity is that which the animal produces in its own body as a result of disease followed by recovery or by vaccination.
 - (b) Active acquired immunity is transferred in the form of blood serum globulin to one animal from another which has previously recovered from a disease or has been vaccinated.
 - Which of the statements given above is/are correct?
 - (A) (a) only (B) (b) only (C) Both (a) and (b) (D) None of them
- 74. With regard to Synchronization of estrous in sheep, consider the following :
 - (a) Intramuscular injection of Prostaglandin F_2 , once during in teal phase of estrous induce estrous.
 - (b) Estrogen injection two days after the Progesterone injection can also induce estrous.

Which of the statements given above is/are correct?

- (A) (a) only (B) (b) only (C) Both (a) and (b) (D) None of them
- 75. Most ideal breeding programme for descript buffalo breeds of India is :
 - (A) Inbreeding (B) Selective breeding (C) Cross breeding (D) Upgrading
- 76. With regard to Brucellosis in cattle consider the following :
 - (a) B. abortus generally causes abortion during the first or second month of pregnancy.
 - (b) Milk ring test is used as a herd screening test.
 - Which of the following statements is/are correct?
 - (A) (a) only (B) (b) only
 - (C) Both (a) and (b) (D) None of them
- 77. Consider the following with respect to Tuberculosis :
 - (a) Tuberculosis due to Mycobacterium bovis occurs only in cattle but not in other ruminants.
 - (b) Human beings may also get affected by M. bovis.

Which of the statements given above is/are correct?

- (A) (a) only (B) (b) only
- (C) Both (a) and (b) (D) None of them
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78. Consider the following statements with respect to dystocia: (a) Dystocia in anterior presentation is relatively more common than dystocia in posterior presentation in cattle. (b) Posterior presentation is considered pathological in all except the multiparous animals. Which of the following statements given above is/are correct? (A) (a) only (B) (b) only (D) None of them (C) Both (a) and (b) 79. The gestation period in rabbit is : (A) 60-62 days (B) 50-52 days (C) 40-42 days (D) 30-32 days 80. Which breed of rabbit is exclusively reared for wool? (A) New Zealand White (B) Russian Grey Giant (C) Angora (D) Soviet Chinchilla 81. Photoperiodism is characteristic of the reproductive cycle of the : (A) Pig (B) Sheep (D) All the above (C) Cattle 82. Consider the following statements : (a) All the ova carry X chromosome (b) Only half of the sperms carry X chromosome Which of the statements given above is/are correct? (A) (a) only (B) (b) only (C) Both (a) and (b) (D) None of them 83. The main ingredient of the semen diluents protecting the spermatozoa from freezing injury is : (A) Tri sodium citrate (B) Potassium chloride (C) Glycerol (D) Sodium bicarbonate 84. The genes that control quantitative traits are known as : (A) Multiple allele (B) Multiple genes (C) Epistatic genes (D) Hypostatic genes 85. The correlation between reproduction efficiency and lactation parameters is : (B) Very high (A) Very low (C) One (D) Above one 86. The formula for correcting the fat corrected milk yield is : (A) 0.4 (Total fat yield) + 15 (Total milk yield) (B) 0.4% (fat %) + 15 (Total milk yield) (C) 0.4 (Total milk yield) + 15 (fat %) (D) 0.4 (Total milk yield) + 15 (Total milk yield)

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87. Superiority of the selected animals to be the parents of the next generation is : (A) Selection differential (B) Selection intensity (C) Selection index (D) Selection pressure 88. Consider the following statements with respect to selection : (a) Fewer the traits under selection slower the progress. (b) Individual selection is ideal for traits with high heritability. Which of the statements given above is/are correct? (A) (a) only (B) (b) only (C) Both (a) and (b) (D) None of them 89. Consider the following statements with respect to inbreeding : (a) The main genetic consequence of inbreeding is increase in heterozygocity. (b) Inbreeding decreases pre potency. Which of the statements given above is/are correct? (A) (a) only (B) (b) only (C) Both (a) and (b) (D) None of them 90. Ketosis is a disease of ruminants caused by impairment of metabolism of : (A) Protein (B) Carbohydrates and volatile acids (C) Protein and carbohydrates (D) Carbohydrates and minerals 91. Hepato intestinal form of schistosomiasis in cattle is caused by : (A) Schistosoma indicum (B) Schistosoma nasale (C) Schistosoma annulata (D) All the above 92. Which of the following chemicals is generally used for dehorning in calves? (A) Sodium bicarbonate (B) Sodium carbonate (D) Magnesium chloride (C) Caustic potash 93. Which of the following is a rickettsial disease in cattle? (A) Anaplasmosis (B) Coccidiosis (C) Theileriosis (D) Babesiosis 94. In metabolic acidosis, blood pH falls due to : (A) Increased carbonic acid (B) Decreased bicarbonates (C) Increased Lactic acid (D) Decreased potassium hydroxide 95. Most ideally, FMD suspected sample should be collected in : (B) Formaline 10% (A) Formal saline 10% (C) Glycerine 50% (D) Alcohol 70%

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96.	Haemolytic anaemia is caused by :		
	(A) Coccidia		Anaplasma spp.
	(C) Proteus spp.	(D)	Hemouchus
97.	Phlebitis is the inflammation of :		
	(A) Artery	(B)	Vein
	(C) Lymph vessel	(D)	Capillary
98.	Consider the following statements with respect to r	igori	nortis :
	(a) It appears quickly in case of animal died due t	-	
	(b) Is enhanced by starvation and cold before the	•	
	Which of the statements given above is/are correc	t ?	
	(A) (a) only		(b) only
	(C) Both (a) and (b)	(D)	None of them
99.	The test/s used for detecting mastitis in cattle :		
	(A) Hotis test	(B)	Bromothymol blue test
	(C) White side test	(D)	All of them
100	. Parasitic cirrhosis is caused by :		
100	(A) Hemonchus sp.	(B)	Ascaris lumbricoides
	(C) Amphistomes	` '	Fasciola sp.
101	. With respect to diagnosis of rabies, consider the fo	llowi	nα ·
101	(a) Absence of negri bodies confirms that the ani		
	(b) Habel's mouse inoculation test is less accurat		
	Which of the statements given above is/are correc		5
	(A) (a) only	(B)	(b) only
	(C) Both (a) and (b)	(D)	None of them
102	. Most common site of calculi lodgement in bullock	is :	
	(A) Pelvic urethra		Sigmoid flexure
	(C) Neck of the bladder	(D)	Tip of urethra
103	The hormone that is primarily responsible for the o	nset o	f ovarian activity and puberty is :
	(A) FSH		Progesterone
	(C) Estrogen	. ,	Lutenizing hormone
104	. Progeny testing programme is done for the selection	on of ·	
101	(A) Progeny		Sire
	(C) Dam	` ´	Both Sire and Dam
		. /	

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105. Consider the following statements with respect to Blue tongue disease : (a) It is caused by virus belonging to genus orbivirus of Reoviridae family. (b) It is transmitted by culicoides species of biting midges. Which of the statements given above is/are correct? (A) (a) only (B) (b) only (C) Both (a) and (b) (D) None of them 106. Heritability values ranges from : (A) 0 to 1 (B) -1 to +1(C) 1 to 100 (D) 2 to 4 107. Primary energy source in ruminants : (A) Acetic acid (B) Propionic acid (D) Lactic acid (C) Butyric acid 108. Ghee contains fat percentage of : (A) 46 % (B) 99 % (C) 20 % (D) 16 % 109. Milk pasteurization is done at temperature of : (A) 110 degree for 15 min (B) 45 degree for 15 min (C) 72 degree for 15 seconds (D) 99 degree for 30 min 110. Most potent green house gas produced by ruminants is : (A) CO₂ (B) $H_{\gamma}S$ (D) CH_{4} (C) 0_{2} 111. Feed conversion ratio is highest in : (A) Pig (B) Poultry (C) Sheep (D) Goats 112. Stiff lamb disease in sheep is caused by : (A) Vitamin A deficiency (B) Vitamin B_{ϵ} deficiency (D) Vitamin E deficiency (C) Vitamin B_{ϵ} deficiency 113. Blind staggers is noticed in horses due to : (A) Vitamin B_2 deficiency (B) Selenium toxicity (C) Vitamin E toxicity (D) Copper poisoning 114. Double toned milk contains : (A) 3% fat and 9% SNF (B) 1.5% fat and 9% SNF (C) 3% fat and 8.5% SNF (D) 1.5% fat and 8.5% SNF

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115. Swine influenza is caused by :

(A) H5N1	(B) H1N1
(C) H2N7	(D) H5N7

116. Linkage between two adjacent nucleotides is :

- (A) Phospho diester bond
- (C) Phosphate bond

117. Synthesis of RNA from DNA is known as :

- (A) Translation
- (C) Transcription

118. Hormone responsible for ovulation is :

- (A) Prolactin
- (C) LH
- 119. Actino bacillosis affects :
 - (A) Hard tissues
 - (C) Skin

120. Principal volatile fatty acid produced in rumen is :

- (A) Acetic acid
- (C) Butyric acid

- (B) Hydrogen bond
- (D) Water bond
- (B) Transduction
- (D) Transformation
- (B) Estrogen
- (D) PGF, alpha
- (B) Soft tissues
- (D) Horns
- (B) Propionic acid
- (D) Lactic acid

ROUGH WORK

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