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## COMBINED COMPETITIVE (PRELIMINARY) EXAMINATION, 2010

Serial No.

ANIMAL HUSBANDRY AND
VETERINARY SCIENCE
Code No. 02



Time Allowed: Two Hours

Maximum Marks: 300

## **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.
- You, have to enter your Roll Number on this
   Test Booklet in the Box provided alongside.
   DO NOT write anything else on the Test Booklet.

Your Roll No.	

- 4. This Booklet contains 120 items (questions). Each item comprises *four* responses (answers). You will select *one* 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. All items carry equal marks. Attempt ALL items. Your total marks will depend only on the number of correct responses marked by you in the Response Sheet.
- 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 with you the Test Booklet.

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## **ROUGH WORK**

1.	Total recognized breeds of buffalo	in India:			
	(A) 26	(B) 40			
	(C) 16	(D) 20			
2.	Total recognized breeds of goat in	India:			
	(A) 26	(B) 40			
	(C) 16	(D) 20			
3.	Total recognized breeds of poultry	in India :			
	(A) 26	(B) 40			
	(C) 18	(D) 20			
4.	Mohair is produced by :				
	(A) Bhakarwal	(B) Sonadi			
	(C) Angora	(D) Nali			
5.	Which one of the following is a d	ual purpose breed of cattle ?			
	(A) Nagore	(B) Haryana			
	(C) Bachaur	(D) Red Sindhi			
6.	Maximum wool producing country	is:			
	(A) India	(B) New Zealand			
	(C) Australia	(D) England			
7.	Indian's contribution to world boy	ine population :			
	(A) 12%	(B) 16%			
	(C) 25%	(D) 24%			
8.	Indian's contribution to world total milk production:				
	(A) 23%	(B) 8%			
	(C) 20%	(D) 50%			
9.	Which of the following is usually	not included in livestock ?			
	(A) Cattle	(B) Sheep			
	(C) Buffalo	(D) Poultry			

10.	Sheep and goat contribution total milk production of world:		
	(A) 5·0%	(B)	1.6%
	(C) 6·6%	(D)	10%
11.	CSWRI is located at:		
	(A) Makhdoom	(B)	Avikanagar
	(C) Karnal	(D)	Dehradoon
12.	Which animal contribute maximum to the	e mil	k production of India ?
	(A) Goat		Buffalo
	(C) Cow	(D)	Sheep
13.	Maintenance type of roughage have DCP	:	
	(A) 10–20%		6–10%
	(C) 3–5%	(D)	All of these
14.	Productive type of roughage have DCP m	nore	than :
,	(A) 5%		10%
	(C) 15%	` ′	20%
15	The crude protein content of pasture rang	es fr	om :
13.	(A) 3–30%		6–50%
	(C) 10–40%	` ′	None of these
16	Course fibre of masture renges from		
10.	Crude fibre of pasture ranges from:	(D)	20, 400/
	(A) 10–15%		20–40%
	(C) 40–60%	(D)	None of these
17.	Starch content in maize is:		
	(A) 40%	(B)	65%
	(C) 20%	(D)	56%
18.	Molasses are used in livestock feeding as	:	
	(A) A source of energy	(B)	An appetizer and binder for pelleting
	(C) Reduce dustiness of ration	(D)	All of these

19.	Which of the following is Zaid season cr	op?	
	(A) Maize	(B)	Jowar
	(C) Barley	(D)	Oat
20.	Concentrate contain TDN more than:		
	(A) 20%	(B)	50%
	(C) 40%	(D)	60%
21.	TDN% of cereal grains ranges from :		
	(A) 60–50%	(B)	70–85%
	(C) 40–30%	(D)	None of these
22.	Toxic level of linseed meal in diet of pour	ıltry	is:
	(A) 10%	(B)	5%
	(C) 15%	(D)	20%
23.	N.R.C. feeding standard was evolved in :		
	(A) U.S.A.	(B)	U.K.
	(C) Germany	(D)	France
24.	During ensilage process loss of dry matter	er ran	nges from:
	(A) 10–15%	(B)	2-10%
	(C) 1–5%	(D)	None of these
25.	The specialized structure used for prepara	ation	of silage is called:
	(A) Trench	(B)	Silo
	(C) Tripod	(D)	None of these
26.	The pH of silo-pit is:		
	(A) 5%	(B)	8%
	(C) 4%	(D)	3%
27.	Fishmeal, a feed ingredient is richest sou	rce c	of:
	(A) Vitamin A	(B)	Vitamin C
	(C) Vitamin B <sub>12</sub>	(D)	None of these
28.	Calcium and phosphorus percentage of bo	one r	meal is :
	(A) 15% and 20%		15% and 10%
	(C) 30% and 15%	` ′	None of these

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29.	The commonly used model of AV used for collection of bull semen is:		
	(A) Swedish	(B)	Danish
	(C) Russian	(D)	Japanese
30.	The most critical temperature at which a ce is between:	ell mi	ust survive during freezing and thawing
	(A) 15–35°C	(B)	4–15°C
	(C) 4–60°C	(D)	Below 65°C
31.	The most widely accepted method to eva	luate	thawed semen is:
	(A) Individual motility	(B)	Sperm cone
	(C) Progressive motility	(D)	Acrosomal integrity
32.	Teasing a bull before semen collection m	ay re	esult in :
	(A) Increased semen volume, whereas re	duce	d sperm conc.
	(B) Increased semen volume, as well as	speri	m conc.
	(C) Reduced semen volume and sperm c	onc.	
	(D) No effect		
33.	The site of AI with frozen stallion semen	in 1	mares is :
	(A) Intra cervical	(B)	Intrauterine
	(C) Anterior vagina	(D)	All of the above
34.	The active component of egg yolk which is:	prot	ects the spermatozoa during extending
	(A) Methionine	(B)	Phospholidye choline
	(C) Phospholidyl serine	(D)	Both (B) and (C)
35.	One of the following is not added to the	froze	en semen because of its toxicity:
	(A) Chloramphenicol	(B)	Streptomycin
	(C) Sulphonamides	(D)	Penicillin
36.	Extender which can preserve semen at ro	om t	remperature is :
	(A) Egg yolk citrate	(B)	CME
	(C) TRIS	(D)	None

37.	In the diluent for freezing semen, cryopi of:	otect	tive action is provided by presence
	(A) Lecithine	(B)	Creatine
	(C) Riboflavin	(D)	None of the above
38.	Yellow colour of Guernsey bull semen is	due	to:
	(A) Provitamin A	(B)	Cyanocobalamine
	(C) Riboflavin	(D)	None
39.	The 'Dag defect' spermatozoa is grouped	und	er:
	(A) Primary abnormalities	(B)	Secondary abnormalities
	(C) Miscellaneous abnormalities	(D)	None
40.	The collection of semen in large number of by:	f ram	as for testing the quality is done only
	(A) A.V. method	(B)	Massage method
	(C) Electric stimulation	(D)	None
41.	Cervix also serves as temporary reservoir	for	:
	(A) Semen	(B)	Oocyte
	(C) Embryo	(D)	Polar bodies
42.	Crossing over takes place during which s	tage	of meiosis?
	(A) Pachytene	(B)	Zygotene
	(C) Diplotene	(D)	Leptotene
43.	The first scientific basis of heredity was	put b	by:
	(A) Darwin	(B)	Lamarck
	(C) Mendel	(D)	Bateson
44.	The recognised cattle breeds of M.P. are	:	
	(A) Nimari, Malwi, Kenkatha	(B)	Gir, Nimati, Malwi
	(C) Bhadawari, Nimasi, Gir	(D)	Kankrej, Malwi, Git
45.	Common exotic breed of cattle used for i	mpro	ovement of local cattle in M.P. is:
	(A) Holstein Friesian	(B)	Ayrshire
	(C) Brahman		Jersey
		•	

46.	Characteristic tightly curled horns is foun	d in	which buffalo breed?
	(A) Nili ravi	(B)	Surti
	(C) Murrah	(D)	Mehsana
47	The heaviest breed of swine is:		
17.	(A) Landrace	(B)	Large White Yorkshire
	(C) Berkshire		Duroc Duroc
	(c) Bernamie	(2)	Zuroe
48.	Which of the following is well known for		
	(A) Aseel	(B)	Kadaknath
	(C) Brahma	(D)	Leghorn
49.	Characteristic "Roman Nose" & "Long E	ars"	are found in which breed of goat ?
	(A) Jamnapari	(B)	Beetal
	(C) Barbari	(D)	Sirohi
50.	Most prolific goat breed of India is :		
	(A) Jamnapari	(B)	Beetal
	(C) Barbari	(D)	Sirohi
51.	Best Indian dairy breed of goat is:		
	(A) Jamnapari	(B)	Beetal
	(C) Barbari	(D)	Sirohi
52.	Which of the following is poor man's cov	w ?	
. <b></b>	(A) Sheep		Goat
	(C) Yak	` '	Liama
		. ,	
53.	When heritability of traits is high, the best		
	(A) Individual		Progeny
	(C) Family	(D)	Pedigree
54.	Repeatability is upper limit of:		
	(A) Mean	(B)	Median
	(C) Standard deviation	(D)	Heritability
55.	Chegu breed of goat produces:		
	(A) Pashmina	(B)	Angora
	(C) Mohair	(D)	None

56.	Mating between two breeds alternatively	is:
	(A) Incross breeding	(B) Line breeding
	(C) Cross breeding	(D) Rotational breeding
57.	The new breed can be evolved by:	
	(A) Grading up	(B) Out crossing
	(C) Cross breeding	(D) Inbreeding
58.	When foreign DNA fragments are introduced	ced into appropriate host cells, such cells
	are called transformed and process is known	own as :
	(A) Translation	(B) Transduction
	(C) Transformation	(D) Transcription
59.	Who described operon concept in E-coli	?
	(A) Mendel, Darwin	(B) Hugo Clevises, Muller
	(C) Tracis Jacab, Muller	(D) Francis Jacab & Jacques Monod
60.	The sex determination system in mamma	1 is :
	(A) ZW method	(B) XO method
	(C) ZO method	(D) XY method
61.	In birds the chromosome configuration in	female is:
	(A) A+Z	(B) A+W
	(C) A+ZW	(D) A+ZZ
62.	Milker's nodules are caused by:	
	(A) Virus	(B) Bacteria
	(C) Protozoa	(D) Fungi
63.	National agencies on microbiological qua	lity control of dairy products are:
	(A) F.A.O.	(B) I.S.I.
	(C) American public health association	(D) All of above
64.	Brucellosis can involve persons engaged	with:
	(A) Milk industry	(B) Meat industry
	(C) Leather industry	(D) All of the above

65.	<ul><li>Q-fever agent is frequently found in the</li><li>(A) Milk and urine</li><li>(C) Blood and sputum</li></ul>	(B)	wing material of infected animals: Placenta and spleen All of the above
66.	Source of contamination of milk is throu (A) Infection of milk directly from cow (B) Infection from man to cow and ther (C) Directly by human being (D) All of the above		Ü
67.	Disease transmitted from man to cow is (A) Sore throat and scarlet fever (C) Gastroenteritis	(B)	Foot and Mouth Disease Anthrax
68.	The changes produced by acid forming by (A) Ferment lactose (C) Curdling of milk	(B)	ia is: Sour odour and taste All of the above
69.	Most of the gas forming bacteria belong (A) Coliaerogenus group (C) Streptococcus group	(B)	hich of the following ? Staphylococcus group Pseudomonas group
70.	Red color of milk produce by which bac (A) Pseudomonos cynogens (C) Pseudomonas synxatha	(B)	? Seriatia marsecense None of the above
71.	Which virus is related to milk spoilage (A) Foot and mouth disease virus (B) Cow pox virus (C) Rabies virus (D) All of the above	?	
72.	The common milk bacteria grows at :  (A) 20-40°C  (C) 2°C		0°C 4°C
73.	In comparison to morning milk, fat conto (A) Lower (C) Equal	(B)	f evening milk is: Higher Not compared

74.	The freezing point of milk is about:		
	(A) $-29^{\circ}$ C	(B)	– 0·1°C
	$(C) - 4.5^{\circ}C$	(D)	– 0·55°C
75.	Which of the following milk does not ha	ve 8	-5% SNF ?
	(A) Toned milk	(B)	Double toned milk
	(C) Standardized milk	(D)	Recombined milk
76.	Standard fat percentage in toned and dou	ble t	oned milk are respectively:
	(A) 3.5 & 1.5	(B)	1.5 & 3
	(C) 3 & 1·5	(D)	1.5 & 3.5
77.	On heating colostrum will:		
	(A) Boil	(B)	Clot
	(C) Evaporate	(D)	Warm up
78.	Effect of addition of fat in milk on specia	fic g	ravity:
	(A) Decrease	(B)	Increase
	(C) Irregular	(D)	No effect
79.	In process of pasteurization and sterilizat	ion c	of milk which vitamin get lost ?
	(A) A & D	(B)	B <sub>1</sub> & C
	(C) $B_2 \& B_{12}$	(D)	E & K
80.	Green colour of skim milk is due to:		
	(A) Carotene	(B)	Lactochrome
	(C) Casein	(D)	Fat
81.	Freezing point of cow milk (°C):		
	(A) $-0.531$	(B)	- 0.538
	(C) $-0.547$	(D)	- 0.558
82.	Specific gravity of cow milk ranges:		
	(A) 1·028 — 1·030	(B)	1.025 - 1.028
	(C) $1.030 - 1.032$	(D)	1.032 - 1.034
83.	Which constituent of milk is synthesized	denc	ovo in alveolus epithelia?
	(A) Lactose	(B)	Casein
	(C) Fat	(D)	All of the above

84.	Milk of which cattle breed is commonly	used	for butter making ?
	(A) Ayrshire	(B)	Jersey
	(C) Holstein	(D)	Brown-Swiss
85.	Which of the following is not a dairy bre	eed ?	
	(A) Gir	(B)	Murrah
	(C) Sahiwal	(D)	Hariana
86.	Modified live vaccines are also called:		
	(A) Attenuated vaccine	(B)	Enactivated vaccine
	(C) Both of these	(D)	None of these
87.	Vaccination of sheep pox virus against L	umpy	skin disease in an example of:
	(A) Hetrologous virus vaccine	(B)	Homologous virus vaccine
	(C) Candidate vaccine	(D)	None of these
88.	The antibody which do not participate in	vacc	ine response :
	(A) IgG	(B)	IgA
	(C) IgD	(D)	None of these
89.	What is subunit used in Rabbit vaccine?	•	
	(A) Toxin	(B)	Capsular polysaccharide
	(C) Capsid protein	(D)	Capsid epitopes
90.	Protein used in FMD recombinant DNA	vacci	ne is:
	(A) VP1	(B)	Vp4
	(C) Both of these	(D)	None of these
91.	Glucans act as adjuvants by:		
	(A) Forming depot	(B)	Macrophage stimulation
	(C) Lymphocyte stimulation	(D)	None of these
92.	Adjuvant used for Anthrax vaccine:		
	(A) Aluminum phosphate	(B)	Dextran phosphate
	(C) Alum	(D)	None of these

93.	. Removal of colloidal impurities is done by :		
	(A) Coagulation	(B)	Screening
	(C) Softening	(D)	None of these
94.	Superchlorination requires chlorine at the	dose	e rate of:
	(A) $0.5 \text{ mg/lit}$	(B)	1 mg/lit
	(C) 2 mg/lit	(D)	10 mg/lit
95.	Rapid sand filters can filter at the rate of	·:	
	(A) $2000-3000 \text{ m}^2/\text{hr}$	(B)	$3000-4000 \text{ m}^2/\text{hr}$
	(C) $4000-5000 \text{ m}^2/\text{hr}$	(D)	None of these
96.	Filtration rate of slow sand filter is:		
	(A) 0·05-0·1m/hr	(B)	$0 \cdot 1 - 0 \cdot 2 \text{m/hr}$
	(C) 0·5-1m/hr	(D)	1-2m/hr
97.	MPN is performed in :		
	(A) One stage	(B)	Two stages
	(C) Three stages	(D)	Four stages
98.	Which of the following are greenhouse ga	ases	?
	(A) $SO_2$	(B)	$CO_2$
	(C) Methane	(D)	All the above
99.	Viral diseases transmitted by water include	les :	
	(A) Hepatitis	(B)	Polio
	(C) Rota viral diarrhea	(D)	All of these
100.	Which one of the following goat breed is s	aid t	o be the pride of India and is famous
	for milk production ?		
	(A) Barberi	(B)	Beetal
	(C) Sirohi	(D)	Jamunapari
101.	Which one of the following Indian breed of	f Cat	tle gives highest average milk yield?
	(A) Haryana	` ′	Ongole
	(C) Tharparker	(D)	Red Sindhi

102.	_	n temperature short time system of pas ase producing bacteria in milk at 161		ization is sufficient to destroy common n:				
	(A)	15 Seconds	(B)	30 Seconds				
	(C)	40 Seconds	(D)	60 Seconds				
103.	A go	A good detergent for cleaning milk utensils should be:						
	(A)	Generally acidic	(B)	Of poor wetting power				
	(C)	Alkaline	(D)	Corrosive and toxic				
104.	In which portion of milk from udder, bacteria content is highest?							
	(A)	Secretary phase	(B)	Fore milk				
	(C)	Mid milk	(D)	Stripping				
105.	The	length of estrus cycle in sheep is:						
	(A)	17 days	(B)	19 days				
	(C)	24 days	(D)	28 days				
106.	Infection transmitted to human through milk is:							
	(A)	Salmonella	(B)	Listeria				
	(C)	Clostridium	(D)	Both (A) and (B)				
107.	The	fat content of egg yolk is:						
	(A)	11.5%	(B)	32.5%				
	(C)	16.5%	(D)	22.5%				
108.	Which of the following is an exotic breed of goats?							
	(A)	Beetal	(B)	Black Bengal				
	(C)	Angora	(D)	Surti				
109.	Which of the following is the Danish breed of swine?							
	(A)	Hereford	(B)	Landrace				
	(C)	Yorkshire	(D)	Berkshire				
110.	Past	eurization of milk by Low temperatur	e lor	ng time method is carried out at:				
	(A)	60-65 °C for 30 min	(B)	60-70 °C for 15 min				
	(C)	71-72 °C for 15 sec.	(D)	73-75 °C for 20 sec.				
111.	Mill	from which no cream can be separa	ted:					
	(A)	Frozen milk	(B)	Homogenised milk				
	(C)	Fermented milk	(D)	Soft curd milk				

112.	2. The milk fat content of the Khoa should not be less than:						
	(A)	20%	(B)	30%			
	(C)	15%	(D)	40%			
113.	113. Ordinary souring of milk due to citrate produces :						
	(A)	Butter	(B)	Cheese			
	(C)	Channa	(D)	Paneer			
114.	4. Initially infection of Ranikhet disease results in :						
	(A)	Greenish diarrohea	(B)	Prostration			
	(C)	Torticolis	(D)	All the above			
115. Fowl pox disease spreads through:							
	(A)	Contact	(B)	Through abraded skin			
	(C)	Both	(D)	All of the above			
116.	116. The birds affected with avian leukosis causes :						
	(A)	Wattles may be pale	(B)	Oedema of head			
	(C)	Cyanonis of muscle	(D)	All of above			
117. Coccidiosis is :							
	(A)	Self limiting disease	(B)	Infection disease			
	(C)	Contagious disease	(D)	None			
118.	8. Cheapest rodenticide used for killing the animal is :						
	(A)	Phenoxyacetic acid	(B)	Zinc phosphide			
	(C)	Para quat	(D)	Atrazine			
119. Following substances used for criminal doping in horses:							
	(A)	Anabolic steriods	(B)	CNS stimulants			
	(C)	Bronchodilators	(D)	All of above			
120. The drug is no longer detectable using standard analytical methods in horse is known a							
	(A)	Zero tolerance	(B)	Cross tolerance			
	(C)	Acute tolerance	(D)	None			

## **ROUGH WORK**