POSTS OF **RESEARCH ASSISTANT** IN THE INSTITUTE OF VETERINARY PREVENTIVE MEDICINE, RANIPET INCLUDED IN THE TAMIL NADU ANIMAL HUSBANDRY SERVICE AND **MANAGER(VETERINARY)** IN THE TAMIL NADU CO-OPERATIVE MILK PRODUCER'S FEDERATION LIMITED.

COMPUTER BASED TEST - 2023

PAPER - I

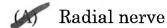
FOR THE POST OF MANAGER (VETERINARY) IN TAMIL NADU CO-OPERATIVE MILK PRODUCER'S FEDERATION LIMITED

ANIMAL HUSBANDRY & VETERINARY SCIENCE (UG DEGREE STANDARD)

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1	Major cause	of laminities	1n '	ruminants	18	auh	to
.	TITUIOI CUUSO	OT IMITITION	TAT .	T CATTITION	TO	auc	

0		
	Ruminal	acidosis

- (B) Mastitis
- (C) Retention of placenta
- (D) Tumour
- (E) Answer not known
- 2. Dropped elbow is due to the paralysis of



- (B) Ulnar nerve
- (C) Axillary nerve
- (D) Median nerve
- (E) Answer not known
- 3. Degree of black and white distinction on a radiograph is
 - Radiographic contrast
 - (B) Radiographic detail
 - (C) Radiographic density
 - (D) Radiographic fogging
 - (E) Answer not known
- 4. In which one of the following phases of wound healing granulation, epithelialization and wound contractions were noticed?
 - (A) Maturation Phase
 - Repair phase
 - (C) Debritement phase
 - (D) Inflammatory phase
 - (E) Answer not known

5.	Clas	ssic sunburst pattern occurs in an X-ray suggestive of
	(A)	Mal union
	(B)	Melanoma
	(C)	Fibrosarcoma
	(0)	Osteosarcoma
	(E)	Answer not known
6.	A sp	ecial type of apposition suture suitable for intestinal anastomosis in
	(1)	Grambee suture
	(B)	Donati's vertical mattress suture
	(C)	Halstead suture
	(D)	Cross-mattress suture
	(E)	Answer not known
7.	Inab	ility to withdraw the penis into the prepace is a bill is called
	(A)	Phimosis
	(B)	Balanitis
	(C)	Posthitis
	DI	Paraphimosis
	(E)	Answer not known
8.	Sper	matozoa with strongly coiled, folded or split tails are called as
	(A)	knobbed spermatozoa
	(B)	Diadem defect
	(C)	Cork-screw sperm defect
	D	Dog defect
	(E)	Answer not known

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- 9. Assertion (A): The development of spermatogenesis is dependent on
 - hormones in animals.
 - Reason (R) : FSH functions to initiate antrogen production while

LH develops the sertoli cells initially and then control

the production of spermatogonia.

- (A) is true but (R) is false
- (B) Both (A) and (R) are true and (R) is the correct explanation of (A)
- (C) (A) is false, (R) is true
- (D) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
- (E) Answer not known
- 10. Ferguson's reflex initiates release of which hormone at parturition in cow?
 - (A) Estrogen
 - (B) Prostoglandin
 - Oxytocin
 - (D) Relaxin
 - (E) Answer not known
- 11. The concentration of spermatozoa (millions/ml) in bull semen is about
 - (A) 3000
 - (B) 1730
 - 1200
 - (D) 150
 - (E) Answer not known

- 12. In which type of foetal mummification, the foetal membranes get dried, shrivelled, parchment like with resultant dry contorted palpable foetal mass?
 - (A) Foetal maceration
 - (B) Haematic type
 - Papyraceous type
 - (D) Ectopic pregnancy
 - (E) Answer not known
- 13. Which of the following reasons does NOT cause damage to embryos during cryopreservation?
 - (A) Intracellular ice crystal formation
 - (B) Dehydration
 - (C) Fracture planes in the extracellular ice
 - Osmotic equilibrium
 - (E) Answer not known
- 14. Super ovulation in cow is done in the following order
 - 1. FSH injected twice daily
 - 2. $PGF_2\alpha$ is injected for CL destruction
 - 3. Flushing of the fertilised embryo
 - 4. Transfer the embryo to surrogate mother
 - (A) 2, 1, 3, 4
 - (B) 4, 1, 3, 2
 - 1, 2, 3, 4
 - (D) 3, 2, 1, 4
 - (E) Answer not known

15.	Which of th	ne follo	wing	structures	does	not	arise	from	paramesoneph	ıric
	duct?									

- (A) Oviduct
- (B) Uterus
- (C) Cervix
- Wulva
- (E) Answer not known
- 16. Under the transport of animals rules 1978, the rule 4 to 14 deals about the transport of one of the following
 - Dogs and cats
 - (B) Horse
 - (C) Cattle
 - (D) Poultry
 - (E) Answer not known
- 17. Normal serum magnesium concentrations in cattle are
 - (A) 1.7 to 2mg/dl
 - (B) 1.0 to 2mg/dl
 - 1.7 to 3mg/dl
 - (D) 1.7 to 4mg/dl
 - (E) Answer not known

- 18. The level of below 3mg/ml of following are component of serum is indicative of favourable prognosis in Downer Cow Syndrome
 - (A) Bilirubin
 - Myoglobin
 - (C) Ceruloplasmin
 - (D) Globulin
 - (E) Answer not known
- 19. Mammary Ketogenesis is a characteristic feature of
 - (A) Subclinical ketosis type I alone
 - (B) Subclinical ketosis type II alone
 - (C) Both Subclinical ketosis type I and II
 - Subclinical ketosis type III alone
 - (E) Answer not known
- 20. Endoscopy is insensitive for
 - Oesophagus weakness
 - (B) Oesophagial tumors
 - (C) Oesophagitis
 - (D) Oesophagial foreign bodies
 - (E) Answer not known

21.	_	oung animals 'Pipe-stem feces' is a clinical sign noticed in subacute e of the disease caused by
	(A)	B. canis
	(B)	B. gibsoni
		B. Bovis
	(D)	B. Bigemina
	(E)	Answer not known
00	mi	
22.	The	clinical indications for nitrofurons is
	(A)	Respiratory tract infections
	(B)	Urinary tract infections
	(C)	Brucellosis
	(D)	Tuberculosis
	(E)	Answer not known
23.	Duri	ng cyanide poisoning, the CN-radical complexes with ferric ion of
	(A)	Haemoglobin
	(B)	Myoglobin
	101	Cytochrome oxidase
	(D)	Both Haemoglobin and Myoglobin
	(E)	Answer not known
24.	The	following toxicants hinders oxygen uptake from pulmonary alveoli
	W	Alpha naphthyl thiourea
	(B)	Nitrate
	(C)	Carbon monoxide
	(D)	Chlorate
	(E)	Answer not known
	(4)	WIPMCI HOT KHOMH
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25. Match the following toxicant/poisoning with antidotes given
List I(Toxicant/Poisoning)
List II(Antidote)
(a) Hydrocyanic acid
(b) Nitrate/Nitrite
(c) Lead

2. D-penicillamine
3. 1% Methylene Blue

(d) Copper

4. Sodium Nitrite and Sodium thio sulphate

(a) (b) (c) (d) (A) 3 2 4 1 2 3 (B) 1 3 2 4 1 3 2 (D) 4 1

(E) Answer not known

26. Assertion (A): Bactericidal action of Benzyl penicillin is seen only against growing cells.

Reason (R) : It impair the formation of bacterial cell wall.

- (A) (A) is true but (R) is false
- Both (A) and (R) are true; (R) is the correct explanation of (A)
- (C) (A) is false, (R) is true
- (D) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
- (E) Answer not known

- 27. Which one of the following method is used to kill the cysticerci of Taenia solium in Pork carcasses?
 - (A) Pickling in brine for 4 days
 - (B) Smoking with hardwoods
 - Freezing at -14 to 18°C for 9 days
 - (D) All the above
 - (E) Answer not known
- 28. Warble is associated with
 - (A) Gastrophylus equi
 - (B) Sarcophaga ruficornis
 - (C) <u>Lucila cuprina</u>
 - Hypoderma spp.
 - (E) Answer not known
- 29. Morocco leather appearance of abomasum of calves is characteristic of the injection with
 - (A) Cooperia curticei
 - (B) Trichostrongyles axei
 - (C) <u>Haemonchus</u> contortus
 - Ostertagia ostertagi
 - (E) Answer not known

30.	The <u>i</u>	in vivo test used to assess the anthelmintic resistance is		
	(A)	Egg hatch assay		
	(B)	Larval development test		
	(0)	Faecal egg count reduction test		
	(D)	Larval paralysis test		
	(E)	Answer not known		
31.	The 1	type of antigen present in Tickgard vaccine is		
	(4)	Concealed antigen	**	
	(B)	Excretory/secretory antigen		
•	(C)	Somatic antigen	•	
	(D)	External antigen		
	(E)	Answer not known		
32:	The	fixative of choice for Histopathological examination of tis	ssue is	
	(A)	10% Alcohol		
	D	10% formol saline		
	(C)	40% Formaldehyde		
	(D)	50% Glycerol saline		
	(E)	Answer not known		
33.		preservative for toxicological analysis from tissue ected cases of phenolic compound poisoning is	samples in	l.
	(A)	Ethyl alcohol		
	(B)	Rectified spirit		
	(C)	Methylated spirit		
	(D)	Saturated salt solution		

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(E)

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Answer not known

- 34. Which of the following is not the characteristic of malignant tumour?
 - 1. Metastasis is always present
 - 2. Polarity of cells are maintained
 - 3. Mitotic figures are infrequently seen
 - 4. Pleomorphism is uncommon
 - (A) 2, 1, 4
 - (B) 1, 2, 3
 - (C) 1, 3, 4
 - 2, 3, 4
 - (E) Answer not known
- 35. Death from starvation is assessed when
 - 1. Skeletal muscle is pale and flabby
 - 2. Stomach is contracted and empty
 - 3. Upper part of the small intestine is stained with bile
 - 4. The urinary bladder is full
 - (A) 2 is true and 1, 3 and 4 are false
 - (B) 4 is true and 1, 2 and 3 are false
 - 1, 2 and 3 are true and 4 is false
 - (D) 2 and 3 are true, and 1 and 4 are false
 - (E) Answer not known

36.	Bloo	d biomarker for kidney disease				
	(A)	ALT and AST				
	(P)	Bun and Creatinine				
	(C)	Total bilirubin	*			
	(D)	Indirect bilirubin				
	(E)	Answer not known				
	,					
37.	Defic	ciency of choline results in				
9	(A)	Deposition of uric acid in joints				
	(B)	Fatty infiltration in liver				
•	(C)	Thickening of urethral duct	•		•	
	(D)	Fibrinoid degeneration in liver				
	(E)	Answer not known				
38.	In ti	uberculosis the type of characteristic	c giant ce	ells obse	rved are	
	(A)	Touton giant cells				
	(B)	Tumor giant cells			F •	
	(0)	Langhans giant cells				
	(D)	Reidsternberg cells				
	(E)	Answer not known				
39.		udo membranes and diphtheritic n following condition	nembran	es of the	e crop is seen	in
	(A)	Aspergillosis				
	(B)	Rhino sporidiosis				
	C	Candidiasis				
	(D)	Blastomycosis				
	(E)	Answer not known				

- 40. The main source of infection for Marck's disease is
 - Feather follicle cells
 - (B) Egg
 - (C) Faeces
 - (D) Nasal secretion
 - (E) Answer not known
- 41. Arrange the stepwise pathogenesis of Foot and Mouth disease
 - 1. Virus invades epithelial cells of Gasterointestinal mucosa and produce lesions
 - 2. Vesicle formation
 - 3. Invades lymph and blood
 - 4. Epithelium of mucus membrane and skin
 - (A) 2, 4, 3, 1
 - (B) 3, 2, 1, 4
 - (C) 1, 4, 3, 2
 - 1, 3, 4, 2
 - (E) Answer not known
- 42. If the total number of breeding females is less than or equal to 100 or the total number of breeding males is less than or equal to five, then the breed is classified as
 - critical
 - (B) endangered
 - (C) breed at risk
 - (D) extinct
 - (E) Answer not known

- 43. Which of the following is/are incorrectly?
 - 1. MAS Marker Assisted Selection
 - 2. rRNA Replicating Ribonucleic Acid
 - 3. mRNA Messenger Ribonucleic Acid
 - 4. tRNA Transposable Ribonucleic Acid
 - (A) only 3
 - 2 and 4
 - (C) 1 and 3
 - (D) 3 and 4
 - (E) Answer not known
- 44. When the markers which are spanned over the entire genome are analysed for detecting the key SNPs (Single Nucleotide Polymorphism) contributing to the trait of interest, it is called
 - (A) SNP selection
 - Genomic selection
 - (C) Gene introgression
 - (D) Combined selection
 - (E) Answer not known

- 45. The correct statements about "Tamil Nadu Bouine Breeding Act 2019"
 - (i) Bouine breeding through natural service shall be restricted to only indigenous breeds.
 - (ii) Bulls used for natural service shall be registered by authority,
 - (iii) Indigenous breeds shall not be used for cross breeding.
 - (A) (i) only
 - (B) (i) and (iii) only
 - (C) (ii) and (iii) only
 - (i) and (ii) only
 - (E) Answer not known
- 46. The current breeding policy recommended by National Commission on Agriculture with respect to improvement of low producing non-descript cattle in India is
 - (A) Selective breeding
 - Grading up
 - (C) Out crossing
 - (D) Top crossing
 - (E) Answer not known

- 47. In two-breed rotational crossing at equilibrium, the off-spring carry the inheritance percentage from the two breeds will be
 - (A) 50% of the genes from each breed
 - (B) 75% of the genes from the sire breed last used and 25% from the other breed
 - 67% of the genes from the sire breed last used and 33% from the other breed
 - (D) 33% of the genes from the sire breed last used and 67% from the other breed
 - (E) Answer not known
- 48. Assertion (A): Progeny testing is an ideal method for evaluating breeding values of Sire's for sex limited traits
 - Reason (R): Fewer males than the females are required for breeding; the scope for genetic improvement is greatest through selection of males.
 - (A) (A) is true but (R) is false
 - Both (A) and (R) are true; and (R) is the correct explanation of (A)
 - (C) (A) is false, (R) is true
 - (D) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
 - (E) Answer not known
- 49. Genetic gain increases with
 - increased variation in the population
 - (B) reduced selection differential
 - (C) reduced heritability
 - (D) increased generation interval
 - (E) Answer not known

50. Of the given options, identify the true statements for the selection method explained below:

Individual selection is not effective when the traits

- 1. are highly heritable
- 2. are expressed late in life
- 3. are lowly heritable
- 4. are expressed in only one sex
- 2, 3, and 4
- (B) 1, 2 and 4
- (C) 3 and 4
- (D) 1 and 2
- (E) Answer not known
- 51. Assertion (A): Prospective parents should be evaluated and selected under the same conditions in which their offspring will be produced.
 - Reason (R) : To avoid heredity × Environmental interaction
 - (A) (A) is true but (R) is false
 - Both (A) and (R) are true, and (R) is the correct explanation of (A)
 - (C) (A) is false, (R) is true
 - (D) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
 - (E) Answer not known

52.	The phenotypic values of most of the quantitative traits are found to follow						
	(A)	Binomial distribution					
	B	Normal distribution					
	(C)	Poisson distribution					
	(D)	Frequency distribution					
	(E)	Answer not known					
53.		Which of the following statement is/are false about reverse transcriptase enzyme?					
	1.	It is a RNA dependent RNA polymerase					
	2.	Present in Retro viruses					
	3.	Does not have proof reading 3'-5' exonuclease activity					
	(A)	1 and 2 only					
	(B)	1 and 3 only					
	(9)	1 only					
	(D)	3 only					
	(E)	Answer not known					
54.	Type of RNA needed to translate the coded mRNA to amino acid is						
	(A)	mRNA					
	(B)	rRNA					
	(C)	sRNA					
	(3)	tRNA					
	(E)	Answer not known					

- 55. In an equilibrium population, if the frequency of Recessive Allele is 0.40, the frequency of heterozygotes is
 - (A) 0.18
 - (B) 0.28
 - (C) 0.38
 - 0.48
 - (E) Answer not known
- 56. The genetic composition of a population is determined by
 - gene and genotypic frequencies
 - (B) migration
 - (C) mutation
 - (D) selection
 - (E) Answer not known
- 57. When a piece of chromosome becomes broken off and attached to another chromosome, usually of another pair, the phenomenon is called as
 - (A) Deletion
 - (B) Inversion
 - (C) Duplication
 - Translocation
 - (E) Answer not known

- 58. Diploid chromosomal complement, having one extra chromosome of a homologous pair (2n + 1) is called
 - (A) Monosomic
 - (B) Nullosomic
 - Trisomic
 - (D) Tetrasomic
 - (E) Answer not known
- 59. The chief cause of aneuploidy is
 - (A) Crossing over
 - (B) Recombination
 - Non-disjunction
 - (D) Disjunction
 - (E) Answer not known
- 60. Avikalin strain of sheep has been evolved from
 - Rambouillet and Malpura Halfbred
 - (B) Merino and Malpura
 - (C) Chokla and Merino
 - (D) Merino and Bikaneri
 - (E) Answer not known

61.	Whic	ch one of the following is/are dual purpose breeds of c	attle?	
01.	1.	Harianag Ongole	abo10.	
	2.	Kankrej, Deoni		
	3.	Amritmahal		
	4.	Kangayam, Malvi		
	(A)	1 only correct		
	(B)	2 only correct		
	(C)	1, 2, 3 are correct		
	(D)	1 and 2 are correct		
	(E)	Answer not known	-	
62.	Shee	ep breed famous for prolificacy in India is	¥ 1	
	(A)	Gaddi		
	(B)	Garole		
	(C)	Madras Red		
	(D)	Nellore		
	(E)	Answer not known	2	
63.	Feed	ding of excessive leguminous fodder to ruminant l	ivestock	causes
	(A)	Osteomalacia		
	(B)	Acidosis		
	(C)	Parakeratosis		
	(D)	Bloat		
	(E)	Answer not known		

64.	used	is a by product obtained from sugar industry as binder for commercial pelleted feed.	which is
	(A)	Bagasse	
	(B)	Press Mud	
	(2)	Molasses	
	(D)	Gluten	
	(E)	Answer not known	
65.		king of physically effective fibre in the ration of dairy cownentable carbohydrate causes	s fed with
	(A)	Ketosis	
	(P)	Acidosis	
	(C)	Alkalosis	
	(D)	Milk fever	
	(E)	Answer not known	
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66.	The	odd one out	
	(A)	Copper – Sway back	
	(B)	Manganese – Perosis	
	(C)	Zinc – Parakeratosis	
	(D)	Magnesium – Falling disease	

(E)

Answer not known

- 67. Which one of the following statement is correct?
 - (A) Rice bran is laxative in action and contains more than 20% crude protein
 - (B) Rice bran is a milling by-products and contains less than 5% crude fibre
 - Rice bran is a milling by-product and contains 14% crude protein
 - (D) Rice bran contains 18% crude protein
 - (E) Answer not known
- 68. (i) The amount of feed consumed by an elephant is equivalent to about 10 percent of its body weight.
 - (ii) The female elephant with suckling calf feeds about 15 percent of her body weight
 - (A) (i) and (ii) True
 - (B) (i) True and (ii) False
 - (C) (i) False and (ii) True
 - (i) and (ii) False
 - (E) Answer not known

- 69. Which of the following statements are true about Good Silage?
 (i) The pH is above 4.8
 (ii) The taste is acidic
 (iii) The pH is between 3.5 and 4.2
 - (iv) High in butyric acid content
 - (A) (i) and (ii) only
 - (ii) and (iii) only
 - (C) (i) and (iv) only
 - (D) (i), (ii) and (iv) only
 - .(E) Answer not known
- 70. The predominant acid produced during the anaerobic fermentation of fodder while making silage is
 - (A) Acetic acid
 - (B) Propionic acid
 - Lactic acid
 - (D) Pyruvic acid
 - (E) Answer not known
- 71. In swine, greasy skin disease occurs due to
 - High calcium level in the diet
 - (B) Low cobalt level in the diet
 - (C) Low iron level in the diet
 - (D) High potassium level in the diet
 - (E) Answer not known

72.	The	species that often refuses musty feeds are	
	(A)	Horses	
	(B)	Buffalo	
	(C)	White cattle	
	(D)	Sheep and goats	
	(E)	Answer not known	
73.	of se	ch is the vitamin act as a co enzyme for decarboxylation deamerine and threonine, transamination, transulfuration, desulf esteine?	
	(A)	B_1	b .
	(B)	B_2	
	(0)	B_{6}	
	(D)	B_{12}	
	(E)	Answer not known	
74.	Whie	ch vitamin has a role in the absorption of amino acid from inte	estine?
	(A)	Vitamin E	
	(B)	Vitamin B_{12}	
	(C)	Vitamin C	
	D	Vitamin B ₆	
	(E)	Answer not known	

- 75. Goose stepping gait in pigs is due to the deficiency of
 - (A) Pyridoxine
 - Pantothenic acid
 - (C) Nicotinamide
 - (D) Riboflavin
 - (E) Answer not known
- 76. "Thumps", a condition found in young piglets characterized by laboured breathing with spasmodic jerking of diaphragmatic muscle is due to the deficiency of
 - (A) Copper .
 - (B) Selenium
 - Iron
 - (D) Iodine
 - (E) Answer not known
- 77. The anti nutritional effect of oxalic acid present in plants is mainly through complexing with
 - (A) Phosphorous
 - (B) Zinc
 - (C) Copper
 - Calcium
 - (E) Answer not known

78.	The	degree of unsaturation in fats is measured as	3	
	(A)	Melting point		
	(B)	Iodine Number		
	(C)	Saponification Nmber		
	(D)	Reichert-Meissl Number		
	(E)	Answer not known		
79.	Whi	ch animal species is more susceptible to coppe	er toxicity?	
	(A)	Pig		
	(B)	Sheep		
	(C)	Dog	•	-
	(D)	Horse		
	(E)	Answer not known		
	(B)	Hemicellulose Cellulose		
	(C) (D)	Lignin Silica		
	(E)	Answer not known		
	(11)	Thiswer not known		
81.	In ge	eneral, the digestibility of bacterial protein by	y numinants is	3
	(A)	low		
	(B)	moderate		
	(C)	high		
	(D)	100%		
	(E)	Answer not known		
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82.	Feed containing	more	than	18%	crude	fibre	and	less	than	60%	TDN	on
	air dry basis are											

- Roughage
- (B) Concentrate
- (C) Conventional feed
- (D) Unconventional feed
- (E) Answer not known
- 83. Mixed farming is a system that consists of the following integration
 - (A) Crop production
 - (B) Growing trees
 - (C) Animal Production
 - Both (A) and (C)
 - (E) Answer not known
- 84. Variable costs are otherwise called as
 - (A) Social cost
 - Direct cost
 - (C) Indirect cost
 - (D) Economic cost
 - (E) Answer not known

- 85. Consider the following statements regarding the estimation of cost of milk production:
 - I. Depreciation was not charged on milch animals upto third lactation.
 - II. Fourth and Fifth lactation animal depreciation was charged at 10%
 - III. Sixth and above lactation depreciation was charged at 20%
 - IV. Depriciation is a variable cost

Which of the above statements is/are correct?

- (A) I, II, IV
- J I, II, III
- (C) I, III, IV
- (D) I, II, III, IV
- (E) Answer not known
- 86. The decline in value of farm assets due to usage, damage and time obsolescence is termed as
 - (A) Appreciation
 - (P) Depreciation
 - (C) Re-valuation
 - (D) Devaluation
 - (E) Answer not known

87.		e transporting cattle, the average spare ay wagon vehicle shall not be less than	provided	per cattle	in
	(A)	6 square metres			
	(B)	5 square metres			
	(C)	3 square metres			
	(0)	2 square metres			
	(E)	Answer not known			
88.	In th	ne economics of Goat rearing, the cost of	grazing i	s classified	as

- cost. Overhead cost (A)

 - (B) Fixed cost
 - (C) Surity cost
 - Wariable cost
 - (E) Answer not known
- Bestiality is punishable under which act? 89.
 - IPC 428 (A)
 - IPC 429 (B)
 - (C) IPC 420
 - IPC 377
 - (E) Answer not known

- 90. Arrange the following events in chronological order
 - 1. Launching of operation Flood
 - 2. Creation of World Trade Organization
 - 3. Founding of National Dairy Development Board
 - 4. Livestock census started in India
 - (A) 4, 3, 2, 1
 - (B) 4, 1, 2, 3
 - 4, 3, 1, 2
 - (D) 3, 4, 1, 2
 - (E) Answer not known
- 91. Free distribution of Nellore cows scheme was implemented during the year in Tamil Nadu
 - 2011 12
 - (B) 2012 13
 - (C) 2010 11
 - (D) 2013 14
 - (E) Answer not known
- 92. Major contribution to the National Economy is by which of the livestock products?
 - (A) Meat and meat products
 - (B) Poultry
 - Milk and Milk products
 - (D) Dung for fuel
 - (E) Answer not known

- 93. Which of the following is incorrectly paired?
 - 1. SLBP Special Livestock Breeding Programme
 - 2. ICDP Integrated Cattle Development Project
 - 3. MMPO Meat and Milk Products Order
 - 4. IWIP Integrated Wool Improvement Project
 - (A) 1 and 3 only
 - 2 and 3 only
 - (C) 3 and 4 only
 - (D) 1 and 4 only
 - (E) Answer not known.
- 94. As per the 20th Livestock census, the buffalo population in India is
 - (A) 89.85 million
 - (B) 143.85 million
 - (C) 93.85 million
 - 109.85 million
 - (E) Answer not known
- 95. Leading states for egg production are
 - (A) Tamil Nadu and Karnataka
 - (B) Tamil Nadu and Kerala
 - Tamil Nadu and Andhra Pradesh
 - (D) Andhra Pradesh and Karnataka
 - (E) Answer not known

- 96. A scheme at the government cattle breeding farms in their breeding tracts to produce stud bulls of recognized breed, which was initiated in the first five-year plan is
 - (A) Hill cattle development scheme
 - (B) Intensive cattle development project
 - Key village scheme
 - (D) Premium bull scheme
 - (E) Answer not known
- 97. ATMA indicates as
 - (A) Agency for Training and Management in Agriculture
 - Agricultural Technology and Management Agency
 - (C) Assessment Transfer and Monitoring Agency
 - (D) Assessment Training and Management Agency
 - (E) Answer not known
- 98. Arrange the sequence of cleaning and disinfection processes in a Dairy plant
 - 1. Rinsing and Acidic cleaning
 - 2. Rinsing and Alkaline cleaning
 - 3. Rinsing and Disinfection
 - 4. Final Rinsing
 - (A) 2, 3, 1, 4
 - (P) 2, 1, 3, 4
 - (C) 1, 2, 3, 4
 - (D) 3, 2, 1, 4
 - (E) Answer not known

- 99. Choose the Right Matches:
 - 1. HACCP Hazard Analysis Critical Control Point
 - 2. OIE World Organization for Animal Production
 - 3. FAO Food Animal Organisation
 - 4. FSSAI Food Safety and Standards Authority of India
 - (A) 1 and 3 are correct
 - 1 and 4 are correct
 - (C) 2 and 3 are correct
 - (D) 3 and 4 are correct
 - (E) Answer not known
- 100. GMP is used for the purpose of
 - (A) Mass Production
 - Quality Control
 - (C) Residue analysis
 - (D) Consumer acceptability
 - (E) Answer not known
- 101. The pasteurized milk should have a Spc/ml (org) not exceeding
 - 30,000
 - (B) 2,00,000
 - (C) 5,00,000
 - (D) 50,000
 - (E) Answer not known

	Removing bacteria in milk by centrifugal force										
	(B)	·									
	(C) Inhibition of bacteria by acidification										
	(D)										
	(E)	Ans	wer not	know	'n						
103.	The	follov	wing pig	ment	in the m	ilk give	es characteristic colou	r to whey			
	(A)	α-C	Carotene	<u>:</u>							
	(B)	Xan	thophyl	1							
	(2)	Lac	toflavin		•		•	•			
	(D)	β-Ca	arotene								
	(E)	Ans	wer not	know	n						
104.	Mat	ch Lie	st I and	List Î	T						
	11101	List I		13100 1	•		List II				
	(A)	0.5%	Fat and	l 8.7%	SNF	I.	Double Toned milk				
	(B)	1.5%	Fat and	l 9.0%	SNF	II.	Toned milk				
	(C)	3.0%	Fat and	l 8.5%	SNF	III.	Standardized milk				
	(D)	4.5%	Fat and	l 8.5%	SNF	IV.	Skim milk				
		(A)	(B)	(C)	(D)						
	(A)	II	(B) III	IV	(D) I						
	(D)	ÍV	I	II	III						
	(C)	III	II	IV	I						
	(D)	II	I	IV	III						
	(E)	Ans	wer not	know	n						

102. Bactofugation refers to the process of

- 105. The most satisfactory heat stability of evaporated milk is assessed by
 - Pilot sterilization test
 - (B) Acidity test
 - (C) COB test
 - (D) Dye reduction test
 - (E) Answer not known
- 106. The incubation temperature for 'Yoghurt' production is
 - (A) 37-40°C
 - (B) 72-75°C
 - (C) 63-65°C
 - 41-43°C
 - (E) Answer not known
- 107. Arrange in Sequential unit order with respect to operational procedure in a chilling centre for milk
 - 1. Sampling
 - 2. Grading for Acceptance/Rejection
 - 3. Weighing
 - 4. Cooling and Storage
 - (A) 1, 2, 3, 4
 - (B) 4, 3, 2, 1
 - (C) 2, 1, 4, 3
 - 2, 3, 1, 4
 - (E) Answer not known

108.	Choose the right answer:	
	The group of organisms belongs to serratia SP is responsible cause of in Egg Albumen	for the
	(A) Green Rot	
	(B) Fungal Rot	
	Red Rot	
	(D) Black Rot	
	(E) Answer not known	
109.	The eggshell breaking strength (applied on the side of the egg) quality-chicken eggs is _ · _ kg. · · ·	of good
	(A) 0.7 to 1.6	
	(B) 1.7 to 2.6	
	2.7 to 3.6	
	(D) 3.7 to 4.6	
	(E) Answer not known	
110.	As per Food safety and standards Act, 2006, Carcass, organ thereof detained for detailed examination shall be marked as	or part
	(A) 'Suspect'	
	(B) 'Detained'	
	(C) 'Inspected'	
	'Held'	
	(E) Answer not known	

111.	Choose the right matches among	g type:
	 Bronchial Lymphnode Calf Liver Spleen Pancreas 	Carpenter's Joint Inspector's Node Melt Gut Sweat Bread
	 (A) 1 and 2 are correct (B) 3 and 4 are correct (C) 3 only correct (D) 4 only correct (E) Answer not known 	
112.	is a chelating agent	used in meat plant sanitation.
	 (A) Propylene glycol (B) Caustic soda (E) EDTA (D) Hypochlorite (E) Answer not known 	***
113.	is added to reduce t	he cooking losses in cured mixture.
	 (A) Sodium nitrite (B) Sodium chloride (C) Sodium poly phosphates (D) Sodium ascorbate (E) Answer not known 	

114. An objectionable boar odour in pork is mainly due to

- 1. Skatole
- 2. Prostoglandin
- 3. Androstenone
- (A) 1 alone is correct
- (B) 2 alone is correct
- (C) 1 and 2 are correct
- 1 and 3 are correct
- (E) Answer not known

115. Which of the following is/are incorrectly paired?

1. Terefa

Razor - Sharp Knife

2. Schechita

Shochet

3. Chalef

Unfit for consumption

4. Shomer

Sealer

- (A) 2 and 4
- **1** and 3
- (C) 1 and 4
- (D) 2 and 3
- (E) Answer not known

116.	Anin		ughtered
	1.	PH Falls	
	2.	Oxidation-Reduction potential falls	
	3.	Anerobic Glycolysis	1
	4.	Rigor Mortis	
	(A)	1, 2, 3, 4	
		3, 1, 2, 4	
	(8)	2, 3, 1, 4	
	(D)	2, 1, 3, 4	
	(E)	Answer not known .	•
	` '		
117.	The is	recommended light intensity at all inspection points in an	Abattoir
	(A)	20 Foot Candles	
	(B)	40 Foot Candles	
	(6)	50 Foot Candles	
	(D)	10 Foot Candles	
	(E)	Answer not known	
118.	Cold	l shortening can be prevented by	A *
	(A)	Electrical Stunning	
	(B)	Electrical Stimulation	
	(C)	Rapid Chilling	
	(D)	Blast Freezing	
	(E)	Answer not known	
	` ,		

- 119. An intelligent computer programme that uses knowledge and inference procedures to solve problem is
 - (A) Management Information System
 - (B) Geographical Information System
 - Expert system
 - (D) Knowledge Management System
 - (E) Answer not known
- 120. Sustainable livestock production may be achieved through
 - (A) Reduced consumption of inputs
 - (B) Introduction of regenerative technologies
 - (C) Strengthening local groups and institutions for natural resource management
 - Interrelated function of above three functions
 - (E) Answer not known
- 121. The Community Development Programme started during the first five year plan in India was based on the experience gained in rural reconstruction of
 - Etawah Pilot Project
 - (B) Firka Development Scheme
 - (C) Gurgaon Project
 - (D) Marthandam Project
 - (E) Answer not known

- 122. The location specific computerized data management system for capturing, storing, analysis of disease monitoring and surveillance is called
 - Geographic Information System
 - (B) Global Positioning System
 - (C) Herd Management System
 - (D) Hospital Management System
 - (E) Answer not known
- 123. In programme planning, the process of determining the extent to which the objectives have been obtained is known as
 - Evaluation of progress
 - (B) Follow plan of work
 - (C) Analysis of situation
 - (D) Determining objectives and goals
 - (E) Answer not known
- 124. The adopter category who are more skeptical and cautious are
 - (A) Early adopter
 - (B) Early majority
 - Late majority
 - (D) Laggards
 - (E) Answer not known

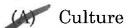
- 125. The adoption stage in which the individual mentally examines the possibility of application of an innovation under his own condition is
 - (A) Awareness
 - Deliberation
 - (C) Trial
 - (D) Evaluation
 - (E) Answer not known
- 126. The process by which an innovation is communicated through certain channels over time among the members of a social system is called
 - (A) Adoption
 - Diffusion
 - (C) Decision
 - (D) Persuation
 - (E) Answer not known
- 127. The most cosmopolite among the adopter category is
 - // Innovators
 - (B) Early adopters
 - (C) Early majority
 - (D) Late majority
 - (E) Answer not known

128.		degree to which an innovation is perceived as better than th	e idea it
	(1)	Relative advantage	
	(B)	Observability	
	(C)	Divisibility	
	(D)	Complexity	
	(E)	Answer not known	

- 129. Panchayat Raj refers to
 - (A) Gram Panchayat
 - (B) Panchayat Samithi
 - (C) Zilla Parishad
 - Democratic Decentralization
 - (E) Answer not known
- 130. Social stratification is hardly found in
 - (A) Urban community
 - (B) Rural community
 - Tribal community
 - (D) Metropolitan community
 - (E) Answer not known
- 131. The goal of teaching is
 - (A) Arousing
 - Learning
 - (C) Attention
 - (D) Action
 - (E) Answer not known

132.	Ever	y elected Panchayat normally continues for a period of
	(A)	3 years
	(B)	4 years
	(0)	5 years

- (D) 6 years
- (E) Answer not known
- 133. All learned normative behaviour pattern of thinking, feeling and doing is called



- (B) Belief
- (C) Law
- (D) Custom
- (E) Answer not known
- 134. The most basic social institution which meets the basic needs of the society is
 - Family
 - (B) Religion
 - (C) Government
 - (D) Education
 - (E) Answer not known

- 135. The farming in which more than 50% of the income is derived from a single enterprise is
 - (A) Diversified farming
 - Specialised farming
 - (C) Mixed farming
 - (D) Extensive farming
 - (E) Answer not known
- 136. The fundamental objective of extension is
 - Development of people
 - (B) Increase production
 - (C) Change the outlook of people
 - (D) Development of community
 - (E) Answer not known
- 137. The farming in which the cost of production per unit will be less is
 - (A) Small scale farming
 - Large scale farming
 - (C) Mixed farming
 - (D) Extensive farming
 - (E) Answer not known

138.		principle of learning by doing is applicable in which novation?	attribute
	(A)	Relative advantage	
	(B)	Trialability	
	(C)	Observability	
	(D)	Compatibility	
	(E)	Answer not known	
139.	Stry	chnine Poisoning acts by blocking the action of	
	(A)	Leucine	
•	(B)	Lysine .	* •
	(C)	Tryptophan	
	(D)	Glycine	
	(E)	Answer not known	
140.	Whic subc	ch are the most frequent flood type that occur is ontinent?	n Indian
	(A)	Rainstorm floods	
	(B)	Rainfall floods	
	(C)	Coastal floods	
	(D)	Dam-failure floods	
	(E)	Answer not known	

- 141. Which of the following statements are correct with respect to lead poisoning in animals?
 - I. Most common form of chemical poisoning in the world.
 - II. Only 2% of the lead ingested is absorbed in the intestine.
 - III. Nervous symptoms predominate in affected animals.
 - IV. Has corrosive action on all mucous membrane.
 - (A) I and II are correct
 - (B) II and III are correct
 - I, II and III are correct
 - (D) All are correct
 - (E) Answer not known .
- 142. During Ante mortem Examination, the veterinarian often confused the lead toxicity with
 - (A) Leptrospirosis
 - (B) Toxaplasmosis
 - Listeriosis
 - (D) Arsenic Toxicity
 - (E) Answer not known

- 143. Which of the following statement(s) is/are true with respect to Japanese Encephalitis?
 - 1. Japanese Encephalitis in man occurs endemically in tropical areas.
 - 2. In this disease, case fatality rate ranging between 20% and 50%.
 - 3. Swine plays a major role as amplifiers of the virus.
 - 4. Aedes Aegypti is the major vector for this virus.
 - (A) 1 and 2 are correct
 - (B) 2, 3 and 4 are correct
 - 1, 2 and 3 are correct
 - (D) 1, 2, 3 and 4 are correct
 - (E) Answer not known
- 144. Assertion (A): The ingress of birds, rats and insects can cause serious problems in meat plant.
 - Reason (R) : They may carry food-poisoning organisms.
 - (A) (A) is true but (R) is false
 - Both (A) and (R) are true and (R) is the correct explanation
 - (C) (A) is false; but (R) is true
 - (D) Both (A) and (R) are true, but (R) is not the correct explanation of (A)
 - (E) Answer not known

- 145. An epidemiological study which compares a group exposed to factors with a group not exposed to the factors with respect to the development of a disease
 - (A) Case-control study
 - (B) Cross-sectional study
 - Cohort study
 - (D) Longitudinal study
 - (E) Answer not known
- 146. The widely used commercial vaccine against Marek's disease in poultry
 - (A) SB-1 strain vaccine
 - (B) FC-126 strain vaccine
 - (C) Attenuated MDV vaccine
 - HVT (Turkey Herpes Virus Vaccine)
 - (E) Answer not known
- 147. The following are of the animal serve as amplifier host for foot and mouth disease
 - (A) Cattle
 - (B) Sheep
 - (C) Horse
 - Pig Pig
 - (E) Answer not known

148.	'Bri	sket e	dema'	is a co	mmon c	linical s	ign noticed in	in cattle.					
	(A)	Black quarter											
	(B)	B) Necrotic hepatitis											
	(C)	(C) Johne's diseases											
	(10)	Hae	morrh	agic se	epticaem	ia							
	(E)	Ans	wer no	t knov	vn								
149.	Small cell variant (SCV) of Coxiella burnetti is not matched with one of												
		follow											
	(A)		racellu		nature								
	(B)	d	istant f					·					
	(D)		acellul										
	` ,	(D) Survive upto 150 days as infectious agent in the environment (E) Answer not known											
	(E)	Ans	wer no	t Knov	vn			- 8					
150.	Mat	Match List I and List II											
		List				_	List II						
	` '		t Elisa			I.	Double Antigen						
			wich E	lisa		II.	Unknown Antigen	7					
		C. El				III.	Nitro Cellulose Mer						
	(D)	Dot E	Liisa			IV.	Monoclonal Antibod	nes					
		(A)	(B)	(C)	(D)								
	(A)	II	III	IV	I								
	(B)	I	$\overline{\Pi}$	II	IV								
	(C)	III	Π	IV	I								
		·II	Ι	IV	III			· 5 ₄ -					
	(E)	Ans	wer no	t knov	vn								

	(A)	Killed vaccine				
	(0)	Live attenuated spore	e vacci	ne		
	(C)	Whole culture vaccine	е			
	(D)	Cell-culture adopted	vaccin	e		
	(E)	Answer not known				4
		*				
152.		se the wrong pair regated cell:	arding	the formation of inclus	sion bodie	es in the
	1.	Canine Distemper	_	Intranuclear		
	2.	Rabies ·	_	Negri Bodies	•	
	3.	Infectious Laryngo	-	Intra cytoplasmic and		
		Tracheitis	_	Intra Nuclear		
	4.	Fowl Pox	-	Bollinger Bodies		
	(A)	1				
	(B)	3				
	(C)	3 and 4				
	D	1 and 3				
	(E)	Answer not known				
153.	The	plasma membrane of	the fu	ıngi differs from anima	al cells is	having
		.				
	(A)	Chitin				
	(B)	Lipopolysaccharide L	ayer			
	(C)	Peptidoglycan				
	0	Ergosterol				
	(E)	Answer not known				
	. ,					

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151. The type of vaccine used for prevention of anthrax

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154.	_	otic abortion, Guttural pouch mycosis and Brooder pneumonia are ed by, which is a member of fungi imperfecti.
	(A)	Geotrichum candidum
	(B)	Histoplasma capsulatum
	(C)	Abscidia
	(D)	Aspergillus fumigatus
	(E)	Answer not known
155.	The linka	cell wall of fungus is composed of with cellulose cross ages.
	(A)	Peptidoglycan · · · · ·
	(B)	N-acetyl Muramic acid
	(6)	Chitin macro molecules
	(D)	Mycolic acid
	(E)	Answer not known
156.		rding the Toxin produced by clostridium tetani, pick out the true ment/s.
	I.	Death occurs by the Flacid Paralysis of the Respiratory muscles.
	Π.	The light chain of Toxin binds with the receptor and the heavy
	TII	chain is the toxic moiety.
	III.	Toxin prevents the release of inhibitory neurotransmitter resulting in muscular spasms.
	IV.	Toxin is transported by Retrograde Intra Axonal Flow
	(A)	I and II
	(B)	I and III
	(C)	II and III
	DI	III and IV
	(E)	Answer not known

157.	Choose	the	right	answer	on	Holding	Temperature	and	Time	of	Hot	Air
	Oven is											

- 160°C for one hour
- (B) 110°C for one hour
- (C) 121°C for 15 minutes
- (D) 100°C for three hours
- (E) Answer not known
- 158. Lance field's Grouping is used for typing which organism?
 - (A) E. Coli
 - (B) Lactobacillus
 - Streptococci
 - (D) Staphylococci
 - (E) Answer not known
- 159. Which of the following test is used for the detection of Anthrax in Decomposed Carcasses?
 - (A) Coomb's Test
 - Ascoli's Test
 - (C) Pearl of String Test
 - (D) Anton's Test
 - (E) Answer not known

- 160. Which among the following Amino Acids are charged?
 - 1. Lysine
 - 2. Glycine
 - 3. Arginine
 - 4. Tyrosine
 - (A) 1 and 2 only
 - 1 and 3 only
 - (C) 2 and 4 only
 - (D) 3 and 4 only
 - (E) Answer not known
- 161. Which of the following is not an Enzyme of Urea Cycle?
 - (A) Ornithine Transcarbamoylase
 - (B) Carbamoyl Phosphate Synthetase I
 - (C) Arginino Succinate Synthetase
 - Carbamoyl Phosphate Synthetase II
 - (E) Answer not known
- 162. The Glucogenic volatile fatty acid produced during Rumen Fermentation is
 - (A) Acetate
 - Propionic Acid
 - (C) Butyric Acid
 - (D) Beta Hydroxy Butyric Acid
 - (E) Answer not known

163.		the incorrect statement of the following which would cause inal Acidosis						
	(A)	Reduction of Rumen pH below 5.5						
	(B)	Growth of Lactobacillus decrease in buffer secretion from Rumen wall						
	(C)	Feeding of Excessive soluble carbohydrates						
	(2)	Sudden change from concentrate diet to roughage diet						
	(E)	Answer not known						
164.	The negative acute phase protein among the following is							
	(A)	C-Reactive Protein						
	BY	Albumin						
	(C)	Haptoglobin						
	(D)	Serum Amyloid A						
	(E)	Answer not known						
165.		lin stimulated uptake of glucose is mediated by this glucose sporter present in Heart and Skeletal Muscles.						
	(A)	Glut 1						
	(B)	Glut 2						

(C)

(E)

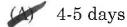
Glut 3

Answer not known

Glut 4

- 166. The favorable conditions required for Pregastric Fermentation is/are
 - (i) Accumulation of the end products of fermentation
 - (ii) Onward propulsion of the unfermented material to the Abomasum
 - (iii) Regular mixing to facilitate the addition of new substrate and buffers
 - (iv) Maintaining Aerobic conditions
 - (A) (i) only
 - (B) (i) and (ii) only
 - (ii) and (iii) only
 - (D) (i) and (iii) only
 - (E) Answer not known
- 167. Example of Poly unsaturated fatty acid is
 - (A) Palmitic acid
 - (B) Oleic acid
 - (C) Stearic acid
 - Arachidic acid
 - (E) Answer not known
- 168. Which of the following metabolite is neurotoxic?
 - (A) Urea
 - (B) Creatine
 - 🏈 Ammonia
 - (D) Uric acid
 - (E) Answer not known

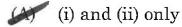
169. Normally how many days are required for the formation of mature RBCs from rubriblasts?



- (B) 14-15 days
- (C) 24-25 days
- (D) 114-125 days
- (E) Answer not known

170. Which combination of statement is completely correct? In Lactating Animals, during summer months

- · (i) Feed consumption declined ·
 - (ii) Milk Production declined
 - (iii) Feed consumption unaltered
 - (iv) Milk production unaltered



- (B) (i) and (iii) only
- (C) (ii) and (iii) only
- (D) (iii) and (iv) only
- (E) Answer not known

171. Which one of the Respiratory volume is associated with the amount of Air In or Out during a respiratory cycle?

- (A) Inspiratory Reserve Volume
- Tidal Volume
- (C) Residual Volume
- (D) Inspiratory Volume
- (E) Answer not known

172. Which of the following is incorrectly paired?

- 1. Milk Ejection Reflex Oxytocin
- 2. Mammary Lobulo Prolactin Alveolar Development
- 3. Mammary Duct Growth Estrogen
- 4. Lactogenesis Progesterone
- (A) 1 and 2
- (B) 2 and 3
- (C) 3 and 4
- (and 4)
- (E) Answer not known
- 173. Which of the following statements are true about blood clotting?
 - (i) Vitamin K is responsible for formation of prothrombin and factors VII, IX and X.
 - (ii) Sweet clover poisoning causes Haemorrhagic disease
 - (iii) The final step in blood coagulation is the conversion of Prothrombin to thrombin
 - (A) (i) and (iii)
 - (i) and (ii)
 - (C) (i) only
 - (D) (iii) only
 - (E) Answer not known

174. Trochlea is present in which of the following joint?

- (A) Shoulder joint
- (B) Hip joint
- Stifle joint
- (D) Pastern joint
- (E) Answer not known

175. Shape of right kidney in Horse is

- (A) Bean
- Heart of playing card
- (C) Elongated
- (D) Oval
- (E) Answer not known

176. Which cells in the stomach secretes Hcl?

- (A) Pyloric cells
- (B) Body chief cells
- Parietal cells
- (D) Pancreatic cells
- (E) Answer not known

177. The Vertebral formula in cattle is

- C7 T13 L6 S5 Cy18 C20
- (B) $C_6 T_{14} L_7 S_6 Cy_{18} C_{20}$
- (C) $C_7 T_{15} L_6 S_7 Cy_{18} C_{20}$
- (D) $C_8 T_{13} L_8 S_5 Cy_{18} C_{20}$
- (E) Answer not known

178. The only accessory sex gland present in dog is

- (A) Seminal vesicle
- (B) Cowper's gland
- Prostate gland
- (D) Preputial gland
- (E) Answer not known
- 179. Assertion (A): The Hip Joint of horses does not allow abduction and

limits the side kicking.

Reason (R) : Abduction is checked by tension of accessory ligament

which extends from subpubic groove to head of femur.

- (A) (A) and (R) are false
- (B) (A) is true but (R) is false
- (A) and (R) is true and (R) is the correct Reason for (A)
- (D) (A) and (R) is true and (R) is not the correct Reason for (A)
- (E) Answer not known
- 180. Give the correct statement regarding rabbit management
 - (1) Doe is taken into buck cage for effective mating.
 - (2) 1:30 is a recommended mate to female sex ratio for rabbit breeding.
 - (3) Nest box arrangement is needed around 42nd days of gestation.
 - (1) alone is correct
 - (B) (2) alone is correct
 - (C) (3) alone is correct
 - (D) (2) and (3) are correct
 - (E) Answer not known

181.	In an (i) (ii)	nimal mating systems Polygyny means one male mates with many females. Polyandry means many males mate with one female.
	(A) (C) (D) (E)	(i) and (ii) false (i) and (ii) true (i) true and (ii) false (i) false and (ii) true Answer not known
182.	The 1 (A) (C) (D)	hybrid animal born to a female horse and a male donkey known as Liger Mule Hinny Zebroid
	(E)	Answer not known
183.	(A) (B) (C) (E)	ation period of African elephant is months. 15 18 20 22 Answer not known

184.		worth and Landrace breeds of exotic pigs used for the development lowing crosbred
	-	Minnosota No.1

- (B) Beltsville No.1
- (C) San Pierre
- (D) Maryland No.1
- (E) Answer not known
- 185. An ideal loin eye area in meat type hogs should be
 - 4.5 sq.inch
 - (B) 2.0 sq.inch
 - (C) 3.0 sq.inch
 - (D) 0.5 sq.inch
 - (E) Answer not known
- 186. Choose the correct statement regarding swine production.
 - (1) The dressing percentage of pigs at marketing age is about 65-70.
 - (2) Growing pigs gain 250-500 g of live weight per day.
 - (3) Young pigelts are to be provided with 14% crude protein content in the creep ration.
 - (A) (1) alone is correct
 - (B) (2) alone is correct
 - (1) and (2) are correct
 - (D) (3) alone is correct
 - (E) Answer not known

187. Assertion (A) : Boars should be provided individual sty.

Reason (R) : It provides olfactory as well as stimulus through

visual and auditory pheramones and stimulate

oestrus in the female animals.

(A) (A) is true but (R) is false

(A) and (R) is true and (R) is the correct Reason for (A)

- (C) (A) and (R) is false
- (D) (A) and (R) is true and (R) is not the correct Reason for (A)
- (E) Answer not known

188. _____ is a young female pig kept for breeding which has not yet been served.

- (A) Gilt
- Open gilt
- (C) Closed gilt
- (D) Yelt
- (E) Answer not known

189. An average fibre diameter of fine wool is

- Less than 24.5 μ
- (B) Between 25 μ to 32 μ
- (C) More than 35 µ
- (D) Between 32μ to 35μ
- (E) Answer not known

190.	Choose the right answer			
	Wetl	ner is a		
	(A)	Castrated male pig		
	(B)	Uncastrated male sheep		
	(C)	Castrated male bovine		
	(D)	Castrated male sheep		
	(E)	Answer not known		
191.		gayam bullocks develops horse power during dry		
	plou	ghing.		
•	A	0.77		
	(B)	0.85		
	(C)	0.89		
	(D)	0.90		
	(E)	Answer not known		
192.	Choose the correct statement			
	Chal	lenge feeding is followed in dairy cows for the following reasons.		
	(1)	To increase daily milk yield.		
	(2)	To decrease butter fat percent.		
	(3)	To increase lactation length.		
	(A)	(1) alone is correct		
	(B)	(2) alone is correct		
	SCY	(1) and (3) are correct		
	(D)	(3) alone is correct		
	(E)	Answer not known		

193. Incubation period of Japanese quail is _____ days. (1) 18 (B) 26 (C) 24 (D) 28 (E) Answer not known 194. The average speed of a pair of bullocks pulling a cart is _____ km per hour. 4-59 - 10(B) (C) 12 - 1315 - 16(D) (E) Answer not known A male horse under the age of four is called as _____. (A) Filly Colt (C) Foal (D) Gelding Answer not known (E)

196. Choose the right matches among type.

1. Murrah

- Tightly curved horn
- 2. Nili-Ravi

Wall eyes absent

3. Surti

- Sickle-shaped horn
- 4. Bhadawari

- Low fat content in milk
- (A) (1) and (2) correct
- (1) and (3) correct
- (C) (2) and (3) correct
- (D) (3) and (4) correct
- (E) Answer not known

197. Which among the following is the floor space requirement (Covered Area/Animal) for Gilt?

- (A) $3.2 4.3 \text{ M}^2$
- (B) $2.2 3.2 \text{ M}^2$
- $1.8 2.7 \,\mathrm{M}^2$
- (D) $5.2 6.7 \text{ M}^2$
- (E) Answer not known

198. The offspring derived from crossing Muscovy with Mallard type ducks

- (A) Pekin duck
- (B) Beltsville small white duck
- Mule duck
- (D) Embden duck
- (E) Answer not known

199. Which one of the following is correctly paired?

(A) Marwari

Gujarat

(B) Kathiyawari

– Jammu Kashmir

Spiti

Himachal Pradesh

(D) Zanskari

– Rajasthan

(E) Answer not known

200. The optimum floor space requirement for buffaloes under covered area as per BIS is

- (A) 3.5 m^2
- 4.0 m^2
- (C) 12.0 m²
- (D) 6.0 m^2
- (E) Answer not known