## COMBINED TECHNICAL SERVICES EXAMINATION (INTERVIEW POSTS) - II

**COMPUTER BASED TEST** 

**DATE OF EXAM: 18.11.2024 AN** 

PAPER - II - ANIMAL HUSBANDRY AND VETERINARY SCIENCE

(DEGREE STANDARD) (CODE: 396)

1.	In a dairy processing plant, closed containers like tanks and vats are easily and effectively sanitized through								
	(A)	(A) Hot water immersion							
	(B)								
	(2)	Togging by chemical sanitizer	rs ·						
	(D)	Brush application							
	(E)	Answer not known							
2.	The	Gerber's acid is used to estima	te .						
	· (A)	Total solids ·	Fat percentage ·						
	(C)	Mineral content	(D) Water adulteration						
	(E)	Answer not known							
3.	Presence of extraneous water in milk is detected by								
	(1)	Lowered fat percentage							
	(2)	Lowered density of milk at 27°C							
	(3)	Lowered percentage of solids	not fat						
	(4)	Freezing point depression							
	(A)	(1), (2) and (3) are correct	(B) (2), (3) and (4) are correct						
	(e)		(D) (1), (3) and (4) are correct						
	(E)	Answer not known							
4.		The Rosalic acid method is used for the detection of i milk.							
	(A)	Pond water	(E) Neutralizers						
	(C)	Hypochlorites	(D) Chloramines						
	(E)	Answer not known							
		3	396-Animal Husbandry and						

5.	Gravity traps are used to treat the waste water from dairy processing plant in order to reduce							
	(A) Total solids (B) BOD							
	(C) COD Fat, oil and grease							
	(E) Answer not known							
6.	Mayonnaise is a							
	(A) Egg nog							
	Semi-solid egg yolk based product							
	(C) Pickled egg							
	(D) Albumen ring							
	(E) Answer not known							
7.	As per Food Safety and Standards Act, 2006, refrigerated non-vegetarian products must be reheated to a minimum internatemperature of							
	(A) 70°C (B) 72°C							
	(C) 74°C (D) 76°C							
	(E) Answer not known							

8.	As per the Food Safety and Standards (Packaging and Labelling) Regulation, 2011, every package of "Non Vegetarian" food shall bear a symbol						
		Brown colour filled circle, in having sides	side square with brown outline				
	(B)	Brown colour filled circle in having sides	inside star with brown outline				
•	(C)	Brown color filled circle insid sides	e square with red outline having				
	(D)	Brown color filled circle insi sides	de star with red outline having				
	(E)	Answer not known					
9.	is examined for cysticercus bovis during postmortem inspection.						
	msp.						
		Triceps brachii	(B) Pectoral				
	(C)	Lung	(D) Spleen				
	(E)	Answer not known					
10.	Emergency slaughter is done in animals having						
	(1)	Acute pain	(B) Chronic illness				
	(C)	Anthrax	(D) Black leg				
	(E)	Answer not known					
11.	Dark firm dry meat normally occurs in						
	(K)	Cattle	(B) Pig				
	(C)	Sheep	(D) Goat				
	(E)	Answer not known	•				
•		· •	900 Autual II				

12.		ch of the following lized milk?	statemen	it(s)	are	true	With	respect	ե Ե(
	(I)	Remarkable keeping	g quality						
	(II)	Useful for feeding in	fants						
	(III)	Possess 'rich' flavour	c ·						
	(IV)	Devoid of vitamin 'C	,						
		(I), (II), (III)		(B)	(I), (	II), (IV	<i>7</i> )		
	(C)	(I), (III), (IV)		(D)	(II),	(III), (	IV)		
	(E)	Answer not known			-			•	
13.	Best quality mozzarella cheese is made from								
	(A)	Cow milk		(B)	Goat	milk			
	(9)	· Buffalo milk		(D)	Shee	p mil	k ·		÷
	(E)	Answer not known							
14.	Which of the following statements are true about ghee?								
	(i)	i) Ghee is a fat rich dairy product							
	(ii)	Ghee is prepared from cream (or) butter							
	(iii)	Granulation in ghee is due to the presence of palmitic and stearic acid							
	(A)	(i) and (ii) only		(B)	(i) ar	nd (iii)	only		
	(2)	(i), (ii) and (iii)		(D)	(ii) a	nd (iii	) only		
	(E)	Answer not known							

		· · · · · · · · · · · · · · · · · · ·	
15.	Cho	ose the average boiling point of	f buffalo milk
	(A)	101°C	(B) 100.5°C
	(C)	101.5°C	(D) 100°C
	(E)	Answer not known	
16.		n which animal's submucosa l cut is prepared?	layer of the intestine, the suture
	(A)	Cattle	(Z) Sheep
	(C)	Horse	(D) Pig
•	(E)	Answer not known	
17.	Curi	ing of meat is done by adding	
	(A)	Salt, Cream and butter	
	(B)	Salt, Sugar and Nitrate (or) N	Nitrite .
	(C)	Salt, Glycerol and Ethyl galla	ate
	(D)	Salt, Potassium chloride and	Sorbate
	(E)	Answer not known	
18.	Dur	ing, tanning operation, bating e	enzymes act on the
	(A)	Collagen	Epidermis
	(C)	Tendons	(D) Fat
	(E)	Answer not known	
19.	Cho	lic acid is obtained from	•
	(A)	Adrenal gland	(P) Bile
	(C)	Pancreas	(D) Liver
	(E)	Answer not known	

	(A)	(A) Streptococcus lactis and leuconostoc spp.								
	P	Streptococcus lactis and pseu	Streptococcus lactis and pseudomonas syncyanea							
	(C)	Candida pseudotropicalis and	d leuc	onostoc spp.						
	(D)	Torulopsis sphaerica and can	idida j	pseudotropicalis						
	(E)	Answer not known								
21.	Which of the following is incorrectly paired?									
	(1)	Fruity flavor of milk	_	Pseudomonas fragi						
	(2)	Musty potato flavor of milk	-	Pseudomonas taetrolens						
	(3)	Malty flavor of raw milk	_	Streptococcus lactis var maltigenes						
	(4).	Blue discoloration in milk	-	Candida spp						
	(A)	(1), (2) and (3)	(B)	(2) and (3)						
	(C)	(1) and (2)	<b>(B</b> )	(4) only						
	(E)	Answer not known								
22.	As per food safety and standards (Food products standards and food additives) regulations, 2011 the total urea content in milk should not exceed									
	(A)	300 ppm	(B)	500 ppm						
	(2)	700 ppm	(D)	900 ppm						
·	<b>(E)</b> .	Answer not known	•							

The blue discolouration in milk is caused by the associative action of

20.

23.	The	acidity at which the milk (as Lactic acid)	sours is usually in the	e range of				
	(A)	0.14 to 0.16%	<b>(B)</b> 0.20 to 0.25%					
	(C)	0.30 to 0.45%	(D) 0.50 to 0.65%					
	(E)	Answer not known						
24.	As p	er BIS standard, Ghee should	d contain ———— %	fat				
	(A)	60%	(B) 70%					
	(C)	80%	<b>(25)</b> 99.5%					
	(E)	Answer not known ·		•				
25.	Mc Fadyean's reaction blue rods in short chain with pink capsules on stained smear is characteristic of							
	(2)	Anthrax	(B) Tetanus	•				
	(C)	Leptospirosis	(D) Tuberculosis					
	(E)	Answer not known						
26.	Avia	Avian influenza (or) Bird flu is caused by						
	(4)	H5N1	(B) H5N2					
	(C)	H5N3	(D) H5N4					
	(E)	Answer not known						
27.	Azu	Azurophils is a unique type of blood cells identified only in						
		Reptiles	(B) Amphibians					
	(C)	Birds	(D) Mammals					
	(E)	Answer not known						

	(A)	X ray irradiated worms					
	(B)	X ray irradiated macroschize	ont				
	(C)	X ray irradiated endosperm					
	(P)	X ray irradiated larvae					
	(E)	Answer not known					
29.	Dog	s zoonotic disease causing reti	nal damage in humans is				
	(A)	Trichinosis	(B) Toxoplasmosis				
	(C)	Cutaneous larval migrans	Visceral larval migrans				
	(E)	Answer not known					
30.		mmers itch an allergic synd rolled by	rome caused by cercariae can be				
	(A)	Corticosteroid cream	(B) Cool compresses				
	(C)	Anti-itch preparations	(F) Molluscicides				
	(E)	Answer not known					
31.		Arthropods mediated transmission in which infectious agents transmitted from one development stage to another is called					
	(A)	Transovarian	(B) Transstadial				
	(C)	Hereditary	(D) Stercorarian				
	(E)	Answer not known					

28.

Hook worm vaccine contains

32.			se tra called		sion, the	etiolo	gical a	agent	multiplie	es in	the
	(A)	Me	chanic	al Trai	nsmissio	n 💪	B) Pro	pagati	ve Trans	missi	ion
	(C)				<b>Fransmis</b>	•					
	(E)		_	ot knov		,	_,			· .	
33.		e fact ceasin		which	the su	sceptib	ility o	of host	to a d	liseas	e is
	(A)	Ena	abling	factor		(	B) Pre	cipitat	ing facto	r	
	(C)		_	ng facto	or .				ing facto		
	(E)			ot knov		•	<i>-,</i>	vers pos		-	
34.	Ma	tch th	e follo	wing:							
	Mat	latch the disease with their clinical signs									
	(a)	Infe	ctious l	Laryng	gotrachei	tis 1.	Thick leg syndrome				
	(b)	EDS	76			2.	Red l	leg syn	drome		
	(c)	Lym	phoid [	Leukos	sis	3.	Soft-	shelled	l eggs		
	(d)	Marek's Disease				4.	Pum	p hand	le respir	ation	
		(a)	(b)	(c)	(d)						
	(A)	4	1	2	3						
	(B)	3	1	4 .	<b>2</b>						
	(2)	4	3	1	2						
	(D)	3	2	4	1						
		2) Answer not known									

35.	Gun	iboro disease (IBD) is called by	•
	(11)	Birna virus	(B) Adeno virus
	(C)	Rhabdo virus	(D) Paramyxo virus
	(E)	Answer not known	
36.	Nun	nber of serotyper present in blu	ie tongue virus
	(A)	23	(B) 27
	(C)	18	(D) 25
	(E)	Answer not known	
37.		strain of <u>Brucella abortus</u> us ne brucellosis in India is	ed in calfhood vaccine to control
	(A)	<u>B. abortus</u> sţrain S99	B. abortus strain S19
	(C)	B. melifensis strain Rev1	(D) <u>B. abortus</u> strain RB51
	(E)	Answer not known	
38.	Whi	ch of the following is incorrectl	y paired?
	(1)	Clostridium septicum –	Braxy
	(2)	Clostridium novyi –	Black leg
•	(3)	Clostridium chauvoei 🕒	Black disease
	(4)	Clostridium perfringens -	Enterotoxemia
	(A)	(2) and (3)	(B) (1) and (3)
	(C)	(3) and (4)	(D) (1) and (4)
	(E)	Answer not known	

39.	Thin layer of peptidoglycan is present in						
	(A)	Gram +ve bacteria	(P)	Gram –ve bacteria			
	(C)	Archaea	(D)	Mycobacteria			
	(E)	Answer not known					
40.	Whi	ch of the following is not the pr	oper	ty of mycotoxins?			
	(A)	Low molecular weight compo	ınds				
	(P)	Immunogenic compound					
	(C)	Heat stable substances					
	(D)	Secondary fungal metabolites		•			
	(E)	Answer not known					
41.	Bovine Dermatophytosis is usually caused by						
	(A)	Trichophyton equinum	(B)	Microsporum gallinae			
	(C)	Trichophyton simii	926)	Trichophyton verrucosum			
	(E)	Answer not known					
42.	Which of the following is not a green house gas?						
	(A)	$\mathrm{CO}_2$	(P)	$^{ullet}$ $ m H_{2}$			
	(C)	CH <sub>4</sub>	(D)	CFC ,			
	(E)	Answer not known					
43.	The international treaty which is related with ozone depletion is						
	(A)	Ramsar convention	(B)	Kyoto protocol			
	(2)	Montreal protocol	(D)	London convention			
	(E)	Answer not known					

- 44. Byssinosis is caused by the inhalation of
  - (A) Coal dust

(E) Cotton dust

(C) Sugarcane dust

- (D) Silicate dust
- (E) Answer not known
- 45. Red nose is caused by
  - (A) Blue tongue
  - (B) Mucosal disease
  - Infectious bovine rhinotracheitis
  - (D) Pox
  - (E) Answer not known
- 46. Assertion (A) : Blood smell from the tip of ear that is on the lower side of animal carcass is taken to rule out anthrax.
  - Reason (R) : Because of gravity all blood would have drained from the ear on the upper side.
  - (A) (A) is true, and (R) is false
  - (B) (A) is false, and (R) is true
  - Both (A) and (R) are true, and (R) is the correct explanation of (A)
  - (D) Both (A) and (R) are true, and (R) is not the correct explanation of (A)
  - (E) Answer not known

47.	Collection of pus locally within a closed cavity in an organ or tissue is called							
	(A)	Sinus	(B) Abscess					
	(C)	Fistula	(D) Pustule					
	(E)	Answer not known						
48.	Ede	ma is caused due to						
	1.	Increased capillary permeabili	ty of the capillary endothelium					
	2.	Increase in plasma proteins						
	3.	3. Increase in colloid osmotic pressure of the blood						
	4.	Decreased hydrostatic pressure	e of blood					
	(M)	1 only	(B) 1 and 2					
	(C)	1, 2 and 4	(D) 1 and 3					
	(E)	Answer not known						
49.	The	primary immunosuppressive d	isease in poultry include(s)					
	1.	Infectious bursal disease	•					
	2.	Fowl pox						
	3.	Chicken infectious anaemia	,					
	4.	Epidemic tremor						
	(A)	1 and 4 are correct	1 and 3 are correct					
	(C)	2 and 3 are correct	(D) 2 and 4 are correct					
	(E)	Answer not known						

50.	Rect	Rectal pinch smear is used for diagnose of							
	(A)	Tuberculosis	Johne's disease						
	(C)	Haemorrhagic septicaemia	(D) Pesti de pesti ruminantia						
	(E)	Answer not known							
51.	Carcinoma is defined as malignant tumor of								
	(A)	muscle	(B) horn						
	(2)	epithelial tissue	(D) blood						
	(E)	Answer not known							
52.	At post-mortem examination of birds, liver showed multifoca necrotic foci, multiple petechiae on heart, blood smear revealed bipolar organisms. The disease diagnosis is								
•	(1)	Escherichia coli	•						
	(2)	Salmonella							
	(3)	Streptococci							
	(4)	Corynebacterium							
	(A)	(1) is correct and (2), (3), (4) are false							
	(B)	(2) is correct and (1), (3), (4) are false							
	(C)	(3) is correct and (1), (2), (4) are false .							
	(FI)	All (1) (2) (3) (4) are false statements							

Answer not known

(E)

53.	Identify the true statements regarding the concurrent use of non
	steroidal anti inflammatory drugs with the following drugs.

- 1. Usage with aminoglycosides leads to nephrotoxicity
- 2. Usage with glucocorticoids enhances the immunity and antiinflammatory effect
- 3. Usage with anticonvulsant drugs reduce the toxicological effect of both the drugs.
- 4. Usage with glucocorticoids increases the RNK of gastro intestinal ulceration.
- (A) (1) and (2)

(B) (1) and (3)

(C) (3) and (4)

(1) and (4)

- (E) Answer not known
- 54. Which of the following statement is/are true with reference to organophosphorus and carbamate insecticides poisoning in animals
  - (i) Both the insecticides act by irreversible inhibition of acetyl choline esterase enzyme
  - (ii) Organophosphorus poisoning can be treated with atropine and oximes
  - (iii) Oximes are not recommended in carbamate poisoning
  - . (A) (i) only

(B) (ii) only

(C) (i) and (ii) only

(B) (ii) and (iii) only

(E) Answer not known

55.	Ivermectin is in effective against except									
	(a)	Nematodes								
	(b)	Cestodes								
	(c)	Trematodes								
	(d)	Mites								
	(A)	(a) and (b)	(B) (b) and (c)							
	(C)	(c) and (d)	<b>(B)</b> (d) and (a)							
	<b>(E)</b>	Answer not known								
	•									
56.	Plasma half-life is the time required for									
	(A)	50 percent of dose of a drug to be absorbed into the blood stream.								
	(B)	50 percent of a given dose of a drug to be metabolised								
	(C)	50 percent of the amount of a drug in the body to be excreted								
	(P)	The plasma level of a drug to fall by 50 per cent								
	(E)	) Answer not known								
57.		The lighter level of anaesthesia that is not suitable for surgical procedures but helps in restraining the animal is called								
	(A)	Pre-anaesthetic medication	Basal anaesthesia							
	(C)	Balanced Anaesthesia	(D) Local anaesthesia							
	(E)	Answer not known								

58.	Which of the following is not an ideal requirement for a local anesthetic?										
	(A) should produce reversible paralysis of sensory nerves										
	(B) should have non-addictive properties										
	(C) should be readily soluble in water										
	should be systemically absorbed quickly	· ´_									
	(E) Answer not known										
59.	The role of bovines in the life cycle of <u>Taenia saginata</u>										
	(A) Final host · Intermediate hos	st.									
	(C) Paratenic host (D) Carrier host										
	(E) Answer not known										
60.	The sporulated oocysts of cryptosporidium possess										
	(A) No sporocysts, eight sporozoites										
	(B) Two sporocysts each containing four sporozoites										
	C) Four sporocysts each containing two sporozoites										
	Four sporozoites not enclosed in a sporocyst										
	(E) Answer not known										
61.	A farmer reports resistance in <u>Haemonchus Contortus</u> to Fenbendazole in his Flock. As there is anthelmintic resistance to Fenbendazole what alternate drug can be used?										
	(A) Albendazole (B) Febantel										
	(D) Thiabendazole										
	(E) Answer not known										

co	3. AT	. 1 .1	6.33		• ,						
62.	Mat (a)		ie follov ophago:			location 1.	n in animals Liver				
	(b)		iola gi			Jianum		2.	Desophagus		
	(c)		ocerca		<u>.</u>			3.	Colon		
	` ′	_	<u>hanur</u>		tatus			4.	Kidney		
	(4)	<u> </u>	<u> </u>	ab aoir	<u>acus</u>				1111110		
	_	(a)	(b)	(c)	(d)						
		3	1	2	4						
	(B)		3	.4							
	(C)	1	2	3	4						
	.(D)	4	3	. 2	1	•			•		
	(E)	Ans	swer no	ot knov	wn						
63.	Bursati in hores is caused by Larvae of										
•	(A)	a) <u>Oxyuris equi</u>						Strong	ylus <u>Vulgaris</u>		
	(C)			_	<u>vicalis</u>	•	_		ia Megastoma		
	(E)		swer n								
64.	Q.,1	nh	wellow	`ao1o;;;	and duann	ing is t	٠h,	, ahawa	atomiatia alimiaal aign		
04.		_	yenow ys infe			ing is t	LIIC	ciiara	cteristic clinical sign		
	(A)	<u>Tri</u>	chomo	<u>nas Ga</u>	<u>llinae</u>	(E	3)	<u>Hexam</u>	<u>ita Meleagridis</u>		
	(2)	His	stomon	<u>as Mel</u>	<u>eagridis</u>	(Γ	))	Chilom	astix gallinarum		
	(E)	An	swer n	ot knov	wn						
65.	Rer	nal im	pressi	on is al	bsent in t	he liver	° 0	f .			
	(A)	Ox				Œ	(B) Horse				
						,	•	Dog			
	(E)		swer n	ot knov	wn	, (=	,	208	•		
•									•		
		al Hu: y Scie	sbandr ence	y and	2	20					

66. The following salivary gland is present only in Dog.									
	(2)	Zygomatic gland	(B) Sublingual gland						
	(C)	Mandibular gland	(D)	Maxillary gland					
	(E)	Answer not known							
67.	The	right atrio–ventricular orifice o	of the	e heart is guarded by					
	(A)	Foramen ovale	(B)	Bicuspid valve					
	(C)	Conus arteriosus	(B)	Tricuspid valve					
	(E) .	Answer not known	•						
68.	The	pulmonary veins opens into the	e roo	t of the					
	(A)	Right Atrium	(B) Left Ventricle						
	(2)	Left Atrium .	(D)	Right Ventricle					
	(E)	Answer not known							
69.	The	foramen ovule connects the							
	(18)	Right and Left Atrium	(B) Right and Left Ventricle						
	(C)	Right Atrium and Ventricle	(D)	Left Atrium and Ventricle					
	(E)	Answer not known							
70.	Abso	olute deficiency of Insulin is obs	serve	ed in					
	(A)	Pituitary Diabetes							
	(B)								
	(2)	Insulin Dependent Diabetes							
	(D)	Non-Insulin Dependent Diab	etes						
	(E)	Answer not known							

- 71. Consider the statements and choose the correct one.
  - (1) Rothera test is most sensitive to acetone
  - (2) Rothera test is most sensitive to acetic acid
  - (3) Rothera test is most sensitive to  $\beta$ -Hydroxybutyric acid
  - (4) Rothera test is most sensitive to acetoacetic acid
  - (A) Statement (1) is correct
- (B) Statement (2) is correct
- (C) Statement (3) is correct
- Statement (4) is correct
- (E) Answer not known
- 72. Estimation of C-Peptide in plasma serves as a useful index to assess the production of
  - (A) Exogenous Insulin Level
  - Endogenous Insulin Level
  - (C) Prepro Insulin Level ·
  - (D) Pro Insulin Level
  - (E) Answer not known
- 73. Ammoniotelic animals are
  - (K) Fishes and Frogs
  - (B) Reptiles and Birds
  - (C) Ruminants
  - (D) Non-Ruminants
  - (E) Answer not known

74.	Con	Conjugated bilirubin level is elevated in									
	(A)	Prehepatic jaundice	(B)	Post hepatic jaundice							
	(C)	Hepatic jaundice	(D)	Haemolytic jaundice							
	(E)	Answer not known									
<b>75</b> .	Man	nmary lobule areolar growth is	stim	ulated by							
	(A)	Estrogen	(B)	Progesterone							
	(C)	Prostaglandins	(D)	Oxytocin							
	(E)	Answer not known									
76.	_	Lipolysis in the adipose tissue is stimulated by all the following hormones, except									
	(A)	Growth hormone	(B)	Glucocorticoids							
	(C)	Glucagon	(B)	Insulin							
	(E)	Answer not known									
77.	Fun	ctional Residual Capacity (FRO	C) is (	calculatd by adding							
	(A)	Tidal volume and residual vo	lume								
	(B)	Inspiratory reserve volume a	nd ex	xpiratory reserve volume							
	(C)	Tidal volume and expiratory	reser	ve volume							
•	(D)	Expiratory reserve volume ar	ıd re	sidual volume							
	(E)	Answer not known									

74.

	(M)	Ventricular Depolarizati	ion						
	(B)	Atrial Depolarization							
	(C)	Atrial Repolarization							
	(D)	Ventricular Repolarizati	on						
	(E)	Answer not known							
79.	Bloo	od does not clot intravascu	larly due	to all of the following, except					
	(K)	Positively charged endot	helial sur	face					
•	(B)	Presence of heparin	•	•					
	(C)	Presence of Protein C an	nd antithro	ombin					
	(D)	Presence of Thrombomo	dulin						
	(E)	Answer not known							
80.	The	functional unit of the enz	yme is kno	own as					
	(A)	Monomeric enzyme	(B)	Oligomeric enzyme					
	(C)	Multi enzyme	(26)	Holo enzyme					
	(E)	Answer not known							
81.		Which one of the following Enzyme is a reliable indicator of Hepatocellular Injury in Dogs and Cats?							
	(A)	AST	(P)	ALT					
	(C)	ALP.	(D)	ACP					
	(E)	Answer not known							

In the electrocardiogram 'QRS' complex represents

78.

82.	Seru	Serum Amylase is used as a screening test for							
	(A)	Acute Hepatitis	(B) Acute Gastritis						
	(2)	Acute Pancreatitis	(D) Acute Enteritis						
	(E)	Answer not known							
83.	The	end product of Glycolysis under	Anaerobic condition is –						
	(A)	Citric Acid	(B) Pyruvic Acid						
	<b>(C)</b> .	Succinic Acid	Lactic Acid						
	(E)	Answer not known							
84.	Most of the Co-Enzymes, are Derivatives of								
	(A)	Vitamin A	Vitamin B complex						
	(C)	Vitamin C	(D) Vitamin D						
	(E)	Answer not known							
85.	Floor	r space requirement for cow is							
	(K)	3.5 m² covered area, 7.0 m² open area							
	(B)	7.0 m² covered area, 3.5 m² open area							
	(C)	12.0 m <sup>2</sup> covered area, 12.0 m <sup>2</sup>	open area						
,	(D)	4.0 m² covered area, 8.0 m² open area							
	(E)	Answer not known							
86.	'Sick	le shaped Horns' is a breed cha	aracter of						
	(A)	Jaffarabadi Buffalo	(B) Nagpuri Buffalo						
	(C)	Toda Buffalo	Surti Buffalo						
	<b>(E)</b>	Answer not known							

87.	Ducks belong to the family of									
	(A)	Cervi	idae			( <b>PS</b> ) A	(B) Anatidae			
	(C)	Phas		ae		•	Capridae			
	(E)	Answ			own		(-)	- co <b>r</b> - coor		
88.	In order to avoid maximum solar radiation during summer months, the long axis of the cattle shed should be constructed with									
	(A)	Nortl	h-Sou	th o	rientat	(B) S	South-West ori	entat	ion	
	(C)	Nort	h-Eas	t ori	entatio	on	( <b>D</b> ) I	East-west orier	itatio	n
•	(E)	Answ	er no	t kn	own	•	·	•		•
89.	An Ideal loose house box dimension should be									
	45	7.25	$\times 7.25$	5 m			(B) 7	$7.00 \times 7.00 \text{ m}^{-1}$		
		7.50			•		, ,	$8.25 \times 8.25 \text{ m}$	•	
	(E)				own		(2)			
00					_					
90.		ch the ratory			floor	space	(sq.cm.)	requirement	of d	ifferent
	(a) I	Mouse	1		1.	300-	600			
	<b>(b)</b>	Rat			2.	3700-4600				
	(c)	Guine	a Pig		3.	65-1			. •	
	(d)	Rabbit	t		4.	100-	150			
	(	(a)	(b)	(c)	(d)	1				
	(A)	2	1	4	3					
	(B)	4	3	2	1					
•		3	4	1	2				4	
	(D)	1	2	3	4					
	(E)	Answ	er no	t kn	own			•		•
		Husb Scien		and		26				

## 91. Choose the Right answer

- (1) In pasture mating, the stallion is turned out with a band of mares for the entire breeding season.
- (2) In corral mating, the stallion is turned out with mare and taken out after breeding.
- (3) Artificial insemination is increasingly used with horses including thoroughbred horses.
- (4) Hand mating is the least preferred method of breeding in horses.
- (A) (1), (2) and (3) are correct
- . (B) (2), (3) and (4) are correct
- (1) and (2) are correct
- (D) (3) and (4) are correct
- (E) Answer not known
- 92. The best breeding season for horses in India
  - (A) Spring

(B) Monsoon

(C) Summer

- (D) Winter
- (E) Answer not known

93.	Assertion [A]		:	Inbreeding is the most common problem in captive animal breeding program.					
•	Reason [R] :			The foundation stock in most of the zoos are very small, inbreeding often happen unless care is taken.					
	(A)	[A] is true	e but	[R] is false					
	(P)	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 n	ot kı	nown					
94.	The	The age of Disbudding in calves is							
	(A)	12-14 day	'S	3-10 days					
	(C)	1-2 days		(D) 14-16 days					
	(E)	Answer n	ot kr	nown					
95.		hing for ding.	ewes	has to be carried out — before					
	<b>(\( \)</b>	1 to 9 was	ake	(B) 2 to 3 wooks					

3 to 4 weeks

Answer not known

(D) 4 to 5 weeks

96.	Whi	ch one of the following	is in	correctl	y paird?					
	W	Angora goat	_	Pashm	ina production					
	(B)	Anglo-Nubian goat	_		_					
	(C)	Black Bengal goat								
	(D)	Nellore sheep	_	Tallest	sheep of India					
	(E)	Answer not known								
97.	Which of the following body part is best for branding?									
	(2)	Lower part of thigh		(B)	Upper edge of ear					
	•	Both (A) and (B)		(D)	None of the above					
	(E)	Answer not known								
98.	Breed of buffalo not originate from Gujarat									
-	(A)	Surti		(B)	Murrah					
	(C)	Mehsana		(D)	Jaffarabadi					
	(E)	Answer not known								
99.	Average daily amount of dung voided by the pigs in range is									
	(A)	2-3 kg		(B)	3-5 kg					
	(C)	5-6,kg		(D)	7-9 kg					
	(E)	Answer not known								
100.	In breeding boar the motility of sperm immediately after collect should be									
	(A)	50 to 60 percent		(B)	60 to 70 percent					
	(2)	70 to 80 percent		(D)	80 to 90 percent					
	<b>(E)</b>	Answer not known								
			2	9	396-Animal Husbandry and					

101.	To improve the reproductive performance of the pigs, boar should be provided									
	(A)	Individual sty								
	(B)	Individual sty in the	vicinity of gilt pens							
	(C)	Individual sty away f								
	(D)	Individual sty in the	vicinity of gilt and sow pens							
	(E)	Answer not known								
102.	The scientific name of pigmy hog									
	(A)	Sus serofa	(B) Sus cristatus							
	(C)	Sus domesticus	💋 Sus salvanius							
	(E)	Answer not known								
103.	An important factor responsible for production of large amount of pork from non descript pig in India									
	(A)	A) Cross breeding with bacon type swine breed								
	(B)	Cross breeding with lard type swine breed								
	(2)									
	(D)	Cross breeding with the best indigenous swine breed								
	(E)	Answer not known								
104.	The	The per capita availability of meat in India during 2022-23 was								
	(M)	7.10 kg/annum	(B) 8.10 kg/annum							
	(C)	9.10 kg/annum	(D) 9.60 kg/annum							
	(E)	Answer not known								

105.	The following statements which is/are true about an extension programme is/are											
	(i)	A statement of situation, objectives, problems and solutions										
	(ii)	It is relatively temporary and does not require revision										
	(iii)	) It forms the basis for extension plans										
	(A)	(i) only		(B)	(i) and	(iii) on	ly					
	(C)	(i) and (ii) only		(D)	(ii) and	l (iii) or	nly					
	(E)	Answer not known										
106.	An outline of procedures so arranged, as to enable efficient execution of the entire programme is called a											
	(M)	Plan of work		(B)	Calend	ler of w	ork					
	(C)	Project		(D)	Situati	on ana	lysis					
	(E)	Answer not known			·							
107.	Choo	ose the right matches am	nong t	he foll	owing							
	(i)	Key village scheme	<del>.</del> .	multi	faceted	approa	ach					
	(ii)	Operation flood I	_	1970	- 81							
	(iii)	National milk grid	_	Impro	ove dai:	ry cattl	е					
	(iv)	Technology mission on dairy development	_	Natio	nal ma	rket fo	r mi	lk				
	(2)	(i) and (ii) are correct		(B)	(i) and	(iii) are	e cor	rect				
	(C)	(ii) and (iii) are correct		(D)	(iii) an	d (iv) a	re co	orrect				
	(E)	Answer not known										

108.	The TOT project of ICAR that is implemented with the specific objective to test, adopt and demonstrate the new agricultural technology on farmer's fields is										
	(1)	Operational research project	(B) National demonstrations								
	(C)	Lab to land programme	(D) Operation flood								
	(E)	Answer not known									
109.	According to Aristotle, communication has the following ingredients. Choose the correct answer										
	(i)	Speaker – Speech – Audience									
	(ii)	Source - Encoder - Audience									
	(iii)	${f Communicator-Decoder-Response}$									
	(iv)	Speaker – Audience									
	SAS	(i) is correct	(B) (i) and (ii) are correct								
	(C)	(iii) is correct	(D)	(iv) is correct							
	(E)	Answer not known									
110.		The degree to which an innovation is perceived as being better that the idea it supersedes is called its									
	(A)	Complexity	(B) Observability								
	(Ċ)	Predictability	(E) Relative advantage								
	(E)	Answer not known									

111.		elative speed with which an innovation is adopted by members of a cial system is called										
	(1)	Rat	e of ac	loption	ì		(B)		Innovativeness			
	(C)	Dif	fusion				(D)		Implementation			
	(E)	Ans	swer n	ot kno	wn							
112.	Choices to adopt or reject an innovation that are made by an individual independent of the decisions of the other members of the social system is called											
	(A)	Opt	ional i	innova	tion d	eciși	ion					
·	(B)	Col	lective	innov	ation	decis	sion					
	(C)											
	(D)											
	(E)	Ans	wer n	ot knov	wn ,							
113.			orrectly ristics	-	adopt	er o	categorie	es	s with their corresponding			
	(a)	Inno	vators			1.	Opinio	n	ı leadership			
•	(b)	Earl	y adop	ters		2.	Ventu	Venturesome				
	(c)	Lagg	gards			3.	Delibe	Deliberate				
	(d)	Earl	y Majo	rity		4.	Tradit	ti	onal			
		(a)	(b)	(c)	(d)			•	•			
	(M)	2	1	4	3							
	(B)	1	. 4	3	2 .							
	(C)	3	1	2	4							
	(D)	4	2	1	3							
	(E)	Ans	wer no	t know	/n							

114.	114. The form of decision of an innovation which consists of consi adoption of the innovation, but then deciding not to adopt is ca											
	(A)	Passive rejection										
	(B) Discontinuance											
	(C)	Disenchantment discontinuance										
	(D)	Active rejection										
	(E)	Answer not known										
115.	Distribution of functions and powers from a central authority to regional and local authorities is called											
	SM	Decentralization (B) Centralization										
	(C)	Bureaucracy (D) Coordination										
	(E) .	Answer not known										
116.	One of the following is not an element in a learning situation											
	(A)	Learners (B) Subject matter										
	(C)	Physical facilities Supervision										
	(E)	Answer not known										
117.	Cho	ose the right matches of the following :										
	í.	Primary group – intimate face to face interaction										
	2.	Secondary group — informally organised relationships										
	3.	Formal group – definite role										
	4.	Voluntary group - no choice for membership										
	(2)	1 and 3 are correct (B) 1 and 2 are correct										
	(C)	2 and 3 are correct (D) 3 and 4 are correct										
	(E)	Answer not known										
		l Husbandry and 34 Science										

118.			blishe called		aviour	patter	ns for	the	men	bers	of a	a socia	ı1
	(A)	Fol	kways				(P) I	Norm	.S				
	(C)	Lav	•				(D) I						
	(E)	Ans	swer no	ot knov	wn		(- / -						
119.	und	esira		permi		e in a social s							
_	(A)	Sta	ble equ	ıilibriu	ım	_	(B) I	Dyna	mic e	quilib	riun	n	
•	(9)		equilib			•	•	-	able e	_		•	
	(E)		swer no		wn		,			•			
120.	resp	onsil		the im	pleme	er extentation	of the		e:	vith	the	perso	n
	• ,		vah Pil		•			K. De	•				
			kheri I						, Aayer				
	(d)		gaon E	_		•			bindr		n Tag	gore	
		(a)	(b)	(c)	(d)								
	(A)	1	4	3	. 2		•						
	(B)	4	3	2	1								
	(C)	3	2	4	1								
	(D)	2	- 1	4	3								
	(E)	Ans	swer n	ot kno	wn								

121.	A diversified farm is one on which the farmer derives income from several sources, but income from no single source is more than									
		50%	(B)	10%						
	(C)	25%	(D)	15%						
	(E)	Answer not known								
122.	The third step in the extension educational process is									
	(A)	Evaluation	(B)	Teaching						
	(C)	Reconsideration	(D)	Situation analysis						
	(E)	Answer not known		•						
123.	The basic philosophy of extension education is to teach people									
	(K)	how to think, not what to think								
	(B)	how to think and what to thin								
	(C)	how to act and where to act								
	(D)	how to use and when to use								
	(E)	Answer not known								
124.	The lifelong process by which every person acquires an accumulates knowledge, skills, attitudes and insights from dai experiences and exposure to environment is called									
	(A)	Formal Education	(B)	Informal Education						
	(C)	Non-formal Education	(D)	Extension Education						
	(E)	Answer not known	•	•						

- 125. Which of the following norms of Central Zoo Authority related to protection and conservation of wildlife is incorrect?
  - (A) Zoo shall not exhibit any sick or injured animal
  - (B) Zoo's built up area shall not exceed 25% of the total area of the zoo
  - Zoo's must have residential complexes for staff with in it's campus
  - (D) Zoo shall be closed to visitors atleast once a week
  - (E) Answer not known
- 126. In making a diagnosis of fatty liver, which among the following is incorrect
  - (A) Increase in the serum NEFA levels
  - Increase in cholesterol level
  - (C) Increase in BHBA levels
  - (D) Increase in serum bilirubin levels
  - (E) Answer not known

- 127. The characteristic clinical findings of milk fever and concurrent hypophosphatemia in dairy cow is
  - (i) Moderate tetany, hyperesthesia, excitement, trismus and twitching of eyelids
  - (ii) Clinical findings similar to typical milk fever which responds to Ca therapy except the cow unable to stand
  - (iii) Extreme weakness or recumbency especially after treatment with isofluperidone
  - (iv) Licking, circling and abnormal voice

(M) (ii)

(B) · (iii)

(C) (i)

(D) (iv)

- (E) Answer not known
- 128. Choose the true statement about toxemia in large animals
  - (A) Toxemia is caused by the presence of lipoprotein cell wall components of gram positive bacteria
  - (B) Toxemia is caused by the presence of lipoprotein cell wall components of gram negative bacteria
  - (C) Toxemia is caused by the presence of lipopolysaccharide cell wall components of gram positive bacteria
  - Toxemia is caused by the presence of lipopolysaccharide cell wall components of gram negative bacteria
  - (E) Answer not known

129.	Colour of the mucous membrane of the cattle affected with in (H Hydrocyanic acid and poisoning is									
	(A)	$\mathbf{Ch}$	ocolate			Bright red				
	(C)	Da	rk red			(D) Pink				
	(E)	Answer not known								
130.	Flel	hmen	's reac	tion is	absen	at in				
	(A)	Boy	vine			(B) Ovine				
	(C)	Equ	Equine (P) Swine							
	(E)	Answer not known · · ·								
131.	Mat	tch th	ie Horr	none w	vith it	s role in reproduction :				
	(a)	FSH			1.	Ovulation				
	(b)	ĽH			· 2.	Maintenance of pregnancy				
	(c)	Estr	ogen		3.	Follicular development				
	(d)	Prog	gestero	ne	4.	Manifestation of Estrus signs				
	_	(a)	(b)	(c)	(d)					
		3	1	4	2					
	(B)	1	2	4	3					
	(C)	2	3	1	4					
	(D)	4	2	1.	3					
	(E)	Ans	wer no	t knov	vn					

132.	The first postpartum ovulation is to be 'Silent Ovulation' in most of the cows because of									
	(A)	Lack of follicle								
	(B)	Excess progesterone secretion								
	(C)									
	(D)									
	(E)	Answer not known	·							
133.		Except in drug, the fertile life of ovulated ova in domestic animals is relatively about								
	(K)	12-24 hours	(B)	26-48 hours						
	(C)	48-96 hours	(D)	96-120 hours						
	(E)	Answer not known	•							
134.	The	The day of embryo collection in cattle is — from Estrus.								
		7 days	(B)	8 days						
	(C)	9 days	(D)	10 days						
	(E)	Answer not known								
135.	Inco	Incomplete dilatation of the cervix in ewe is termed as								
•	(A)	Cloud burst		Ringwomb						
	(C)	Wry neck	•	Ankylosis						
	(E)	Answer not known		-						

136.	Match	the l	ist I	with	List	П

٠.			11 0110 1100 1 1/1 1100 11								
		List I	(Spec	eies)		List II (Type of placenta)					
	(a)	Prim	ates		1.	Diffuse type of placenta					
	(b)	Bitch	L		2.	Discoid type of placenta					
	(c)	Ewe			3.	Cotyledonary type of placenta					
	(d)	Mare	Mare .			Zonary type of placenta					
		(a)	(b)	(c)	(d)						
	(A)	2	4	3	1						
	(B)	3	4	2	1						
	(C)	4 .	3	2	1.						
	(D)	3	2	1	4						
	(E)	Ans	wer n	ot knov	vn						

- 137. One of the following is not related to Brucellosis
  - (A) Abortion in last trimester
  - (B) Non-suppurative synovitis
  - (C) Retained placenta
  - Abortion in most of the subsequent pregnancies
  - (E) Answer not known
- 138. By recto-vaginal method of insemination in cows, the AI catheter is initially inserted pointing upwards at an angle of about 30° to
  - (A) Avoid cervical folds
- (B) Avoid fornix
- (C) Avoid cervical mucus
- ( Avoid urethral meatus
- (E) Answer not known

139.		'S' shaped structure along th le erection in bulls is	e sha	aft of the penis that aids in					
	(A) (C) (E)	Retractor penis muscle Corpus spongiosum Answer not known		Ischiocavernosus muscle Sigmoid flexure					
140.	Nerv	ve block applied for Rumenoton	ny is						
	(A)	Epidural nerve block	(B)	Cornual nerve block					
	(E)	Paravertebral nerve block Answer not known	(D)	Subarachnoid nerve block .					
141.	Which one of the following is an objective means of roughly evaluating the size of cardiac silhouette in x ray								
-	(A)	Norberg angle		•					
	()	Notberg angle							
	<b>(B)</b>	Vertebral heart scale							
	(C)								
	<b>(B)</b>	Vertebral heart scale							
	(C)	Vertebral heart scale Thoracic heart size							
142.	(C) (D) (E)	Vertebral heart scale Thoracic heart size Thoraw-diaphragmatic angle							
142.	(C) (D) (E)	Vertebral heart scale Thoracic heart size Thoraw-diaphragmatic angle Answer not known abular inflammatory tract open	mes						
142.	(C) (D) (E) A tu surfa	Vertebral heart scale Thoracic heart size Thoraw-diaphragmatic angle Answer not known bular inflammatory tract opeaces covered by epithelium (or)	meso (B)	othelium.					

143.	Choose the right matches among type given								
	(1)	Frog like posture in cow wi	th –	Peritonitis					
	(2)	Calf unable to extend the fetlock joint	_	Impactive colic					
	(3)	Frog like posture in a cow with extender hind limbs	<del>-</del>	Rupture of abductor muscles					
	(4)	A cow standing in arched s conductors with tensed abdomen	ack –	Bilateral hip dysplasic					
	(A)	· (1)	(B)	· (2)					
	(C)	(4)	<b>(26)</b>	(3)					
	(E)	Answer not known	•						
144.	. Choo (1) (2) (3)	ose the right matches among  Balanitis –  Posthitis –  Phallocampsis –	Inflam Inflam	lowing mation of the glans penis mation of the prepuce ty to withdraw the penis					
	(4)	Paraphimosis –	Deviat	ion of the penis					
	(A)	(1) and (3) are correct	(25)	(1) and (2) are correct					
	(C)	(2) and (3) are correct	. (D)	(3) and (4) are correct					
	(E)	Answer not known							
145.	Mati	ing of $F_1$ to Homozygous rec	essive p	arent is called as					
	(K)	Test crossing	(B)	Back crossing					
	(C)	Cris-crossing	(D)	Rotational crossing					
	(E)	Answer not known							

146.	Choose the wrong matches										
	Whi	Which of the following is incorrectly paired?									
	(1)	Mule	-		between e donkey	male	horse	and			
	(2)	Yattle	_	Cross	cow a	ınd a yak					
	(3)	Yakalo	<del></del> .	Cross	between y	ak and	l buffal	o			
	(4)	Tigon	_		between e tiger	male	lion	and			
	(A)	(1) and (2) are incorre	ect	(B)	(1) and (3	) are ir	correc	t			
	(C)	(2) and (3) are incorre	ect	$(\mathcal{B})$	(1) and (4	) are ir	correc	t			
	(E)	Answer not known									
147.	Ex-situ conservation is										
	(i)	Preservation of sperms and Oocytes									
	(ii)	Storage of DNA									
	(iii)	Cloning of somatic cells									
	(iv)	Live animal conservation (In-vivo)									
	(A)	(i) and (ii)		(B)	(i), (ii) an	d (iv)					
	(C)	(ii), (iii) and (iv)		_	(i), (ii), (ii		(iv)				
	(E)	Answer not known	•		•		•				
148.		mammalian species lber of "breeds at risk"			corder to	have	the hig	ghest			
		Cattle		(B)	Sheep						
	(C)	Goat		(D)	Pig						

Answer not known

(E)

149.	Heritability for a Quantitative trait is the measure of Degree of relationship of										
	(15)	Additive genetic value on phenotypic value									
	(B)	Dominance Deviation on Phenotypic value									
	(C)	Environmental Deviation on Phenotypic value									
	(D)	Additive Genetic value on Genotypic value									
	(E)	Answer not known									
150.	The amount of Heterosis depends on										
	(i)	Presence of Dominance Effect · ·									
	(ii)	Genetic differences between parental population									
	(iii)	Environment similarity									
	(A)	(i) only (B) (i) and (iii) only									
	(C)	(ii) and (iii) only (i) and (ii) only									
	(E)	Answer not known									
151.	Which of the following statement are true about marker's assisted selection in animal breeding programme										
	(i)	It is easily detectable using molecular technique.									
	(ii)	It is closely linked to the gene of interest.									
	(iii)	It is also served as morphological marker.									
	(A)	(i) only (i) and (ii) only									
	(C)	(ii) and (iii) only (D) (i) and (iii) only									
	(E)	Answer not known									

									•			
152.			plified iate tec	_			_	polymorphism	(AFLP)	is	an	
		RF	LP and	RAPI	)		(B) PCR and AP-PCR					
	(C)	DA	F and I	MAAP	•			(D) STR and S'	ГMR			
	(E)	Ans	swer no	t kno	wn							
153.	Lar	ge wł	nite Yor	kshir	e is or	rigin	ated	from				
	B	Eng	gland	4			(B) Denmark					
	(C)	Un	ited Sta	ates			•	(D) Germany				
	(E)	Answer not known										
154.	Match the correct bird class  (a) American class							their correspond	ling breed	l <i>-</i>		
	` '		tic clas			1. 2.		norca				
	` '		ish cla			3.	Langshan					
		_	iterran		ass	4.		mouth rock			•	
		(a)	(b)	(c)	(d)							
	(A)	4	1	2	3							
	(B)	3	. 4	2	1.			,		1		
	(2)	4	3	1	2							
	(D)	2	1	4	3							
	(E)	E) Answer not known										
•			•					•				

155.	The genetic parameter involved to assess the future performance of the animals having multiple measurements, is								
	(A)	Repeatability	(B)	Genetic correlation					
	(C)	Heritability	(D)	None of the above					
	(E)	Answer not known							
156.		change in performance from pa , which is not being actually se							
	(K)	Correlated response	(B)	Direct response					
	(C) .	Response to selection	(D)	None of the above					
	(E)	Answer not known							
157.	As per the National Livestock Policy, (2013) a maximum level of exotic germ plasm encouraged in crossing of pigs would be								
	(A)	35%	(B)	65%					
	(2)	50%	(D)	75%					
	(E)	Answer not known							
158.	The co-ordinating unit of All India Co-ordinated Research Project (AICRP) on goat is located at								
	(A)	RAJUVAS, Udaipur, Rajasth	an	,					
	(D)	CIRG, Makhdoom, Uttarprad	.esh						
	(C)	MPKV, Rahuri, Maharashtra							
	(D)								
	(E)	Answer not known							

159.	If the C-effect is high, which of the following basis of selection is preferred?							
	(A)	Family selection	(P) Within family selection					
	(C)	Pedigree selection	(D) Individual selection					
	(E)	Answer not known						
160.		lection which improves both G SCA (Specific Combining Abilit	CA (General Combining Ability) y) is					
	(A)	Recurrent selection						
•	<b>(B)</b>	Reciprocal recurrent selection						
	(C)	Truncation selection						
	(D)	Indirect selection						
	(E)	Answer not known						
161.		number of nitrogenous bases of polypeptide chain is	in DNA codes a specific amino					
	(A)	4	(B) 2					
	(28)	3	(D) 1					
	(E)	Answer not known						
162.		process of removal of non – in the coding sequences of pre -	coding sequences interspersed - mRNA is known as					
		Splicing	(B) Degeneration					
•	(C)	Catalysis	(D) Prouning					
	(E)	Answer not known						

163.	The genes controlling the sex – influenced trait are located on											
	(i)	Au	tosome	s								
	(ii)	X -	- chrom	osome								
	(iii)	Y -	Y – chromosome									
	(iv)	Mi	Mitochandria									
	(A)	(i) :	and (ii)	ŀ		· (B	) (i) ar	nd (iii)				
	(C)		and (iv				(i)	,				
	(E)			ot know	n							
				•								
164.	Match correctly the scorresponding examples.					determin	nation	methods	with	their		
	(a) XY method			1.	Boniellia	viridis						
	(b) ZW method				2.	Anasa tri	stis					
	(c) Environment				3.	Birds						
	(d)	(d) XO method			4.	Mammals	3					
		(a)	(b)	(c)	(d)							
	(A)	3	4	2	1							
	(B)	4	3	2	1							
		' 4 3	$\frac{3}{4}$	1 1	$egin{array}{c} 2 \ 2 \end{array}$							
	(D) (E)			ot know	_							
	(11)	23.11	SWCI III	JU IZIIOW	**							
165.						nd urea to	o cerea	l fodders	during	silage		
	(A)	1.0	and 0.	5		<i>g</i> 8	<b>9</b> 0.5 a	nd 1.0				
	(C)	2.0	and 1.	0		(D	) 1.0 a	nd 2.0				
	(E)	An	swer n	ot know	n				•			
	•					49	396	5-Animal H	lusband	ry and		

166.	The quantity of fodder (kg) that can be accommodated in pit silo of 10 cubic meter size during ensiling process					
	(A)	1000	(B)	2000		
	(C)	3000	(3)	4000		
	(E)	Answer not known				
167.	-	Major constraint in incorporation of cotton seed in the animal feed is the presence of				
,	(A)	Tannin	(P)	Gossypol		
•	(C)	Haemagglutinin ·	(D)	Ricin · ·		
	(E)	Answer not known				
168.	The	wild animal requires arachide	onic a	acid supplementation in feed		
	(A)	Deer	(B)	Elephant		
	(C)	Fox	_	Tiger		
	(E)	Answer not known	• •			
169.	The aminoacid is deficiency will lead to death in wild cats is					
	(A)	Lysine	(B)	Methionine		
	(28)	Ärginine	` ′	Tryptophan		
	(E)	Answer not known	` ,			

170. Assertion [A]: When hand, coarse or fibrous feeds are fed to

poultry, grit is sometimes added to supply

additional surface for grinding within gizzard.

Reason [R]:

Poultry do not have teeth to grind and hard grain, most grinding takes place in the thick musculated

gizzard.

- [A] is true but [R] is false (A)
- (P) Both [A] and [R] are true; and [R] is the correct explanation of [A]
- (C) [A] is false but [R] is true
- (D) Both [A] and [R] are true but [R] is not the correct explanation. of [A] is correct
- Answer not known (E)
- 171. Match the following type: Match correctly the deficiency symptoms with corresponding vitamin deficiency:
  - (a) Goose step walk
- 1. Niacin Deficiency
- (b) Black tongue
- Thiamin Deficiency 2.
- (c) Curled-Toe Paralysis
- Pantothenic acid Deficiency 3.
- (d) Polyneuritis
- Riboflavin Deficiency 4.
- (a) (b) (c) (d)
- (A) 3 . 2 4 1 3 2 1
- 2 (C) 3 4 1
- (D) 3 1
- (E)

172.	Choose the right answer					
	As p	As per BIS specifications, AIA level in type I cattle feeds				
	(A)	Maximum 3%	( <b>B</b> ) Minimum 3%			
	(C)	Maximum 4%	(D) Minimum 4%			
	(E)	Answer not known				
173.	Nitr	ate poisoning is related	l to which one of the following			
•	(A)	Vitamin	(B) Egg albumin			
	(C)	Glucose	(26) Haemoglobin			
•	(E)	Answer not known				
174.	The crude protein content of cereal grains varies between					
	(A)	4-6%	8-12%			
	(C)	15-18%	(D) 0-3%			
	(E)	Answer not known				
175.	Additional amount of DCP and TDN requirement for cattle and buffaloes of 350 kg to 500 kg body weight per day during last trimester of gestation (ICAR, 1998) is					
		<b>K</b> ) 90-130g DCP and 1.0-1.1 kg TDN				
	(B)					
	(C)	(C) 50-100 g DCP and 0.75-1.0 kg TDN				
	(D)	(D) 50-100 g DCP and 2.0-2.5 kg TDN				
	(E)	(E) Answer not known				

176.	Consider the following statements about the rumen environment of ruminants.					
	(i)	(i) The liquid phase of rumen content has a pH between 4.8 to 5.8 under normal physiological condition.				
	(ii)	ii) The pH of reticulo rumen is maintained at fairly constant level by the alkalinity of large volume of saliva entering the rumen.				
	(iii)	The pH of rumen may rise to poor roughage by ruminants.	pH 7.5 or more on intake as very			
	(A)	(i) and (ii) only	(ii) and (iii) only			
	(C)	(i) and (iii) only	(ii) and (iii) only (D) (i), (ii) and (iii)			
	(E)	Answer not known				
177.		is an indication of second during the preparation of se	level of cooking or processing bybean meal.			
	(A)	Protease activity	Urease activity			
	(C)	Protein content	(D) Colour			
	(E)	Answer not known	· · · · · · · · · · · · · · · · · · ·			
178.		level of urea added to impro 0 % Dm) is	ve the nutritive value of straw			
	(A)	1%	(B) 2%			
	(C)	3%	<b>(26)</b> 4%			

(E)

Answer not known

179.	The complete feed block used for feeding of ruminants consist of				
	(A)	Roughages and concentrates of	nly		
	(B)	Concentrates only			
	(C)	Molasses and minerals only			
	<b>(B)</b>	None of the above			
	(E)	Answer not known			
180.	Dur	ing feed processing, Gelatinizat	ion o	f starch occurs in	
	(A)	Roasting	(B)	Popping	
•	(C)	Flaking	$(\mathcal{D})$	Pelleting	
	(E)	Answer not known			
181.	Recommended moisture content (%) of grains for storage is				
	(M)	10	(B)	15	
	(C)	20	(D)	25	
	(E)	Answer not known			
182.		plementation of anionic salts od helps in the prevention of	to 1	the cows during transition	
		Milk fever	(B)	Acidosis	
	(C)	Ketosis	(D)	Bloat	
	(E)	Answer not known			

183.	Incre	Increased incidence of milk fever is observed in feeding				
	(i)	Alkaline diet				
	(ii)	Excessive concentration of sodium and potassium in diet				
	(iii)	Acid diet				
	(iv)	Excessive concentration of chloride and sulfur in diet				
	(A)	(i) is correct (i) and (ii) are correct				
	(C)	(iii) is correct (D) (iii) and (iv) are correct				
	(E)	Answer not known				
184.		fication of seed is recommended to prevent milk fever and ld be fed during				
	(A)	Mid lactation period				
	(B)	Dry period				
	(0)	Pregnant cows nearing parturition				
	(D)	Early lactation period				
	(E)	Answer not known				
185.		quantity of poultry meat production in the country during -23 was				
	(A)	3.995 million tonnes 4.995 million tonnes				
	(C)	3.77 million tonnes (D) 4.77 million tonnes				
	(E)	Answer not known				

186.		22-23 was	to the t	otal egg production of india
	(A)	0.14 %	(B)	0.74 %
	(C)	0.54 %	(D)	0.94 %
	(E)	Answer not known		
187.	The	pre capita availability of eg	gs in Inc	dia in 2022-23 was
	(A)	141 eggs per annum	(B)	171 eggs per annum
	(2)	101 eggs per annum	(D)	191 eggs per annum
	(E)	Answer not known		•
188.		er the 20 <sup>th</sup> Quinquennial live te state of Tamil Nadu is—		census, the cattle population — million.
		9.519	(B)	9.897
	(C)	9.951	(D)	9.195
	(E)	Answer not known		
189.		contribution of livestock sed (GSVA) in terms of perce		
	(A)	7.38	(B)	4.68
	(C)	43.70	(13)	5.63
	(E)	Answer not known	<del>-</del>	

190.		The Tamil Nadu livestock development agency was established luring the year ————————————————————————————————————			
	(A)	2000	(B) 2020		
	(2)	2002	(D) 2022		
	(E)	Answer not k	nown		
191.	Whi	ch among the	following establishment was abbreviated as 'VIF'?		
	(A)	Veterinary I	nternational Forum		
	(25)	Veterinary I	ncubation Foundation		
	(C)	Veterinary I	nternational Foundation		
	(D)	Veterinary I	ncubation Forum		
	(E)	Answer not l	known		
192.	The contribution of Goat milk to the total milk production of the country during 2022-23 was				
	(16)	3.30%	(B) 4.10%		
	(C)	3.80%	(D) 4.30%		
	(E)	Answer not l	nown		
193.	Rule	-	revention of cruelty to draught and pack animals mum load permitted to Horse, Vehicle fitted with		
	(A)	500 kg	(B) 650 kg		
	(C)	700 kg	(P) 750 kg		
	(E)	Answer not l	known		

194.		the gains or losses are equal	sis t	nat determines the level at
	(A)	Benefit Cost Analysis	(B)	Break Even Analysis
	(C)	Financial Analysis	(D)	Whole Farm Analysis
	(E)	Answer not known		
195.		decline in value of assets of ed as	a fa	rm over a period of time is
	(1)	Depreciation	(B)	Appreciation
	(C)	Defamation ·	(D)	Affirmation
	(E)	Answer not known		
196.		interest on fixed capital or ner's owned money capital is cla		
	(A)	Explicit cost	(B)	Variable cost
	(2)	Implicit cost	(D)	Production cost
	(E)	Answer not known		
197.		the economics of livestock e gone from the next best alterna		=
	(A)	Economic cost	'(B)	Implicit cost
	(C)	Explicit cost		Opportunity cost
	(E)	Answer not known		

<ul> <li>(A) NPW</li> <li>(B) BCR</li> <li>(C) IRR</li> <li>(D) N/K ratio</li> </ul> 199. In the marketing functions, standardisation preceeds <ul> <li>(A) Storage</li> <li>(B) Grading</li> <li>(C) Transportation</li> <li>(D) Packaging</li> <li>(E) Answer not known</li> </ul> 200. The 'AGMARK' standards for livestock products like milk at are assigned by the following institution of Govt. of India <ul> <li>(A) Bureau of Indian Standards</li> <li>(B) ISO</li> <li>(C) Directorate of Marketing and Inspection</li> <li>(D) Agricultural Marketing Institute</li> <li>(E) Answer not known</li> </ul>	150.	at which it returns the capital is					
(E) Answer not known  199. In the marketing functions, standardisation preceeds  (A) Storage (B) Grading  (C) Transportation (D) Packaging  (E) Answer not known  200. The 'AGMARK' standards for livestock products like milk a are assigned by the following institution of Govt. of India  (A) Bureau of Indian Standards  (B) ISO  (C) Directorate of Marketing and Inspection  (D) Agricultural Marketing Institute		(A)	NPW	(B)	BCR		
<ul> <li>199. In the marketing functions, standardisation preceeds <ul> <li>(A) Storage</li> <li>(B) Grading</li> <li>(C) Transportation</li> <li>(D) Packaging</li> <li>(E) Answer not known</li> </ul> </li> <li>200. The 'AGMARK' standards for livestock products like milk at are assigned by the following institution of Govt. of India <ul> <li>(A) Bureau of Indian Standards</li> <li>(B) ISO</li> <li>(C) Directorate of Marketing and Inspection</li> <li>(D) Agricultural Marketing Institute</li> </ul> </li> </ul>		(9)	IRR	(D)	N/K ratio		
<ul> <li>(A) Storage</li> <li>(B) Grading</li> <li>(C) Transportation</li> <li>(D) Packaging</li> <li>(E) Answer not known</li> <li>200. The 'AGMARK' standards for livestock products like milk a are assigned by the following institution of Govt. of India</li> <li>(A) Bureau of Indian Standards</li> <li>(B) ISO</li> <li>(C) Directorate of Marketing and Inspection</li> <li>(D) Agricultural Marketing Institute</li> </ul>		(E)	Answer not known				
<ul> <li>(C) Transportation</li> <li>(E) Answer not known</li> <li>(D) Packaging</li> <li>(E) Answer not known</li> <li>(E) Answer not known</li> <li>(E) Answer not known</li> <li>(E) Answer not known</li> <li>(E) AGMARK' standards for livestock products like milk at are assigned by the following institution of Govt. of India</li> <li>(A) Bureau of Indian Standards</li> <li>(B) ISO</li> <li>(C) Directorate of Marketing and Inspection</li> <li>(D) Agricultural Marketing Institute</li> </ul>	199.	In th	ne marketing functions	s, standardisa	ation preceeds		
<ul> <li>(E) Answer not known</li> <li>200. The 'AGMARK' standards for livestock products like milk as are assigned by the following institution of Govt. of India</li> <li>(A) Bureau of Indian Standards</li> <li>(B) ISO</li> <li>(C) Directorate of Marketing and Inspection</li> <li>(D) Agricultural Marketing Institute</li> </ul>		(A)	Storage	(P)	Grading		
<ul> <li>200. The 'AGMARK' standards for livestock products like milk as are assigned by the following institution of Govt. of India</li> <li>(A) Bureau of Indian Standards</li> <li>(B) ISO</li> <li>(C) Directorate of Marketing and Inspection</li> <li>(D) Agricultural Marketing Institute</li> </ul>		(C)	Transportation	(D)	Packaging		
<ul> <li>are assigned by the following institution of Govt. of India</li> <li>(A) Bureau of Indian Standards</li> <li>(B) ISO</li> <li>(B) Directorate of Marketing and Inspection</li> <li>(D) Agricultural Marketing Institute</li> </ul>		(E)	Answer not known		•		
<ul> <li>(B) ISO</li> <li>(D) Directorate of Marketing and Inspection</li> <li>(D) Agricultural Marketing Institute</li> </ul>	200.				<del>-</del>		
Directorate of Marketing and Inspection  (D) Agricultural Marketing Institute		(A)	Bureau of Indian Sta	andards .	•		
(D) Agricultural Marketing Institute		(B)	ISO				
, ,		(2)	Directorate of Marketing and Inspection				
(E) Answer not known		(D)	Agricultural Marketing Institute				
		(E)	Answer not known				