## Post of Forest Apprentice in Tamil Nadu Forest Subordinate Service (Group-VI Services)

1.	deio		s in the cytosol by Iodothyronine above enzyme, Which one of the					
	(A)	CAMP	(R) Selenium					
	(C)	Vitamin E	(D) Calcium					
	(E)	Answer not known						
2.		The young neutrophil without segmented nucleus is termed as one of the following						
	(A)	Immature cell						
	(B)	Band cell						
	(C)	Plasma cell						
	(D)	Retriculocyte						
	(E)	Answer not known						
3.	The	major regulatory brain center	s for respiration are					
	(A)	Medulla and Pons	•					
	(B)	Pons and Brainstem						
	(C)	(C) Medulla and Red nucleus						
	(D)	(D) Medulla, Pons and Brainstem						
	(E)	Answer not known						
4.	The term thermoneutral zone indicates the State of animal where animal has to ———————————————————————————————————							
	(A)	increase metabolism	(B) decrease metabolism					
	(C)	need to gain heat	(D) no need to alter metabolism					
	(E)	Answer not known						

5.	Following heat stress, immuno suppression by higher secretory rate of hormones of the following affects immune status of animals except					
	(A) glucocorticoids	•				
	(B) growth hormone					
	(C) endorphins					
	(D) epinephrine					
	(E) Answer not known					
6.	For every cycle, the sodium potassium pump moves how many sodium ions out of the cell and potassium inside the cell					
	(A) 3 Na+ and 2 k+ (out-in)	(B) $2 \text{ Na}^+$ and $3 \text{ k}^+$ (out-in)				
	(C) 3 k <sup>+</sup> and 2 Na <sup>+</sup> (out-in)	(D) 3 Na <sup>+</sup> and 3 k <sup>+</sup> (out-in)				
	(E) Answer not known					
7.	All the following components are involved in transport of iron in body except					
	(A) Ferritia	(B) Hemosiderin				
	(C) Transferrin	(D) Biliverdin				
	(E) Answer not known					
8.	All the following methods are used to measure cardiac output except					
	(A) Echo cardiography					
	(B) Indicator dilution technic	que				
	(C) Fick principle					

(E) Electro cardiography

(E) Answer not known

9.	The following special features are essential for prolonged smooth muscle contraction except						
	(A) Calmodulin						
	(B) Myosin phosphatase						
	(C) Less energy for sustained contraction						
	(B)	Well developed T-tubules system					
	(E)	Answer not known					
10.	The	The following are the functions of Angiotensin-II except					
	(A)	Constrict offerent arterioles of nephron					
	(B)	Release of aldosterone					
	(C)	Second most potent vasoconstrictor in the body					
	(D)	De Reduces the ECF volume					
	(E)	Answer not known					
11.		mean blood pressure is the lowest in which of the following segment lood vessels					
	(A)	Arterioles (B) Capillaries					
	(C)	Venules (B) Venae Cavae					
	(E)	Answer not known					
12.	A h	ypo proteinemia usually leads to edema which is mainly due to					
	(A)	low intake of protein					
	(B)	B) increased capillary permiability					

(C) liver disorders

(E) Answer not known

(D) increased blood pressure

13.		ting of which side of oxygen ver more oxygen to tissues	hei	moglobin dissociation curve will	
	(A)	Left	(B)	Right	
	(C)	Both (A) and (B)	(D)	Irrelevant to delivery	
	(E)	Answer not known			
14.		atile fatty acids from the rule and of ruminants are absorbed		contributing 60-80% of energy	
	(A)	Rumen	(B)	Omasum	
	(C)	Reticulum	(D)	Abomasum	
	(E)	Answer not known			
15.	The sigmoid flexure of the penis is presental in ———— species.				
	(A)	Stallion	(B)	Bull	
	(C)	Dog	(D)	Boar	
	(E)	Answer not known			
16.		have to incurred	ever	n upon the production is not	
	und	ertaken.			
	(A)	Fixed cost	(B)	Variable cost	
	(C)	Opportunity cost	(D)	Implicit cost	
	(F)	Answer not known			

17.	The major limiting factor in improving sheep and goat production are					
	(I)	Lack of pasture				
	(II)	Lack of fodder shrubs				
	(III)	Lack of fodder trees				
	(A)	I only	(B)	I and II only		
	(C)	II and III only	(B)	1, II and III		
	(E)	Answer not known				
18.	State fodder development scheme in Tamilnadu was launched in th					
	(A)	2011	(B)	2014		
	(C)	2016	(D)	2017		
	(E)	Answer not known				
19.	In the current scenario, the average percentage of income obtained from livestock by small farmers in India is					
	(A)	8%	(B)	12%		
	(G)	16%	(D)	22%		
	(E)	Answer not known				
20.	Prev	vention of cruelty to animal act	in Iı	ndia was passed in the year		
	(A)	1950	(B)	1955		
	(G)	1960	(D)	1965		
	(E)	Answer not known				

21.	Livestock production systems are changing mainly with the following attributes of									
	(A)	(A) Demographics, economic development, climate change a available technologies.								
	(B)	Economic development and climate change								
	(C)	Demographics and available technologies								
	(D)	Climate change and available technologies								
	(E)	. ,								
22.	Per	capita availability of egg in India during 2016 -17 is								
	(A)	59 (B) 65								
	(C)	69 (D) 75								
	(E)	Answer not known								
23.	FIAPO stands for									
	(A)	Federation of Indian Animal Protection Organisation								
	(B)	Federation of Indian Animal Prevention Organisation								
	(C)	Foundation of Indian Animal Prevention Organisation								
	(D)	<u> </u>								
	(E)	Answer not known								
24.	The State with highest buffalo population is									
	(A)	Andhra Pradesh (B) Madhya Pradesh								
	(G)	Uttar Pradesh (D) Karnataka								
	(E)	Answer not known								

25.	Concerning sheep, Vembur breed belongs to which district of Tamilnadu					
	(A)	Coimbatore district	(B)	Thanjavur district		
	(C)	The Nilgiris district	(D)	Thoothukudi district		
	(E)	Answer not known				
26.	The	native cattle breed reared in w	este	rn parts of Tamilnadu is		
	(A)	Bargur	(B)	Kangeyam		
	(C)	Pulikulam	(D)	Umbala eheri		
	(E)	Answer not known				
27.	Nat	ional Livestock Mission has —		submissions.		
	(A)	2	(B)	8		
	(C)	4	(D)	5		
	(E)	Answer not known				
28.		lihoods of more than ———		ponent of agriculture, supporting of the rural population in Tamil		
	(A)	Two-thirds	(B)	One-third		
	(C)	One-fourth	(D)	One-fifth		
	(E)	Answer not known				
29.	The	e-market portal for trading hig	gh qu	ality bovine germplasm is		
	(A)	E-pashu haat	(B)	E-choupal		
	(C)	E-bay	(D)	OLX		
	(E)	Answer not known				

30.	NCDC which was set up in India in the year 1963 under the act of Parliament for promoting and supporting rural economy cooperative principles stands for								
	(A)	(A) National cattle development corporation							
	(B)								
	(C)	(C) Native cattle development council							
	(B)	National cooperative developmen	nt council						
	(E)	Answer not known							
31.		schief including killing, poisonin	ng and maiming of animals are — IPC.						
	(A)	428 and 429 (F	3) 420 and 432						
	(C)	272 and 273 (I	9) 377 and 398						
	(E)	Answer not known							
32.	Chicken alone account for about —————— percent of the total poultry population in India.								
	(A)	30 (E	3) 50						
	(C)	70 (5.	90						
	(E)	Answer not known							
33.	was established by FAO and WHO as the reference point for developments associated with food standards.								
	(A)								
	(B)								
		Codex Alimentarius Commission							
	(D)	8							
	(E)	Answer not known							

34.		t of feed is almost ——— ntenance of cattle and buffaloe		- percent of the	e total cost of
	(A)	20	(B)	40	
	(C)	60	(D)		
	(E)	Answer not known	,		
35.		a, Cattle and Buffalo contribus national income.	te ne	early ————	- percent of the
	(A)	10	(B)	15	
	(C)	20	(D)	25	
	(E)	Answer not known			
36.		the procedures for analysis of ocols published by	nutr	ients should be fo	ollowed by book
	(A)	NDDB	(B)	ICAR	
	(C)	AOAC	(D)	NDRI	
	(E)	Answer not known			
37.		first step in applying HACO	CP s	ystem to a food	manufacturing
	(A)	to correct the hazard			
	(B)	to identify and correct the foo	d		
	(C)	to identify and quantify the h	azar	d	
	(D)	to evaluate the food			
	(É)	Answer not known			
38.		is an environmental i	nana	agement standard	
	(A)	<b>√</b> ISO 14000		ISO 22000	
	(C)	ISO 9000	. ,	ISO 9004-3	
	(E)	Answer not known	` '		
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39.		are also known as Wi	iey p	roteins.
	(A)	lpha -lactalbumin	(B)	κ-casein
	(C)	lpha -casein	(D)	$\beta$ -casein
	(E)	Answer not known		
40.	Bon	es constitute about ————		
	(A)	8%	(B)	20-30%
	(C)	4%	(D)	50%
	(E)	Answer not known		
41.	-	per Indian Standard specifications.	tions	, infant milk foods should have
	(A)	7	(B)	15
	(C)	20	(D)	25
	(E)	Answer not known		
42.	(A) (B)	growth of streptococcus lactis		
	(C)	over heating	,	
	(D) (E)	absorption of foreign smelling Answer not known	subs	stances
43.	Sple	een of Pig is		
	(A)	elongated tongue shaped	(B)	oyster shaped
	(C)	flat and oval shaped	(D)	elongated oval shaped
	(E)	Answer not known		

44.	naiothane test is done to ass	ess the stress susceptibility in
	(A) Cattle	(B) Poultry
	(C) Sheep	(D) Pigs
	(E) Answer not known	
45.	As per PFA rules (1976) t ———— percent fat.	able buffer should contain not less than
	(A) 60	(B) 70
	(C) 80	(D) 90
	(E) Answer not known	
46.	———is an alkali dair	ry detergent.
	(A) Pyrophosphate	(B) Citric acid
	(C) Teepol	(D) Sodium bicarbonate
	(E) Answer not known	
47.	Fat liquoring increases the —	——— of the leather.
	(A) tensile strength	(B) heat resistance
	(C) colour	(D) shining
	(E) Answer not known	
48.	Water activity (a <sub>w</sub> ) of fresh m	neat is
	(A) 0.99	(B) 0.89
	(C) 0.80	(D) 0.60
	(E) Answer not known	

49.	can cause serious illness and death in people through consumption of milk products prepared from milk of infected animals.								
		Salmonella typhimurium	parca	from mink of miceted animals.					
		(B) Listeria monocytogenes							
	(C)								
	(D)								
	(E)	Answer not known							
50.	During anaerobic digestion of effluents, volatile fatty acids are utilized by bacteria to yield ————————————————————————————————————								
	(A)	oxygen	(B)	methane					
	(C)	carbon monoxide	(D)	nitrogen					
	(E)	Answer not known							
51.	Bleeding time of sheep carcass should last for ————min.								
	(A)	2 min	(B)	3 min					
	(C)	5 min	(D)	10 min					
	(E)	Answer not known							
52.	Slime on the meat surface is caused by the growth of								
	(A)	Penicillium	(B)	Alcoligens					
	(C)	Thamnidium	(D)	Chromo bacterium lividum					
	(E)	Answer not known							
53.	Green rot in egg is caused by								
	(A)	Pseudomonas fluorescence	(B)	Acinetobactor					
	(C)	Serratia spp	(D)	Proteus melenovogenes					
	(E)	Answer not known							

54.		specifies requireme	ents	for a food safety management			
	syst	em.					
	(A)	ISO 14000	(B)	ISO 22000:2005			
	(C)	ISO 9000	(D)	ISO 9001			
	(E)	Answer not known					
55.		is the semi-soft blue	mou]	ld cheese originated in Norway.			
	(A)	Sapsago cheese	(B)	Gammelost cheese			
	(C)	Quarg cheese	(D)	Baker's cheese			
	(E)	Answer not known					
56.		tical scalding of pigs uses a utes.	ı ten	nperature of — for 7			
	(A)	61°C	(B)	71°C			
	(C)	55°C	(D)	75°C			
	(E)	Answer not known					
57.	Carl	bon dioxide gas is used for grow	up st	unning of			
	(A)	Cattle	(R)	Pigs			
	(C)	Sheep	(D)	Goat			
	(E)	Answer not known					
58.	Dea	Dead animal arriving at flanguta house should be first checked for					
	(A)	Anthrax	(B)	Rabies			
	(C)	Congestion	(D)	Tuberculosis			
	(E)	Answer not known					

59.	Cholesterol (mg/100g) content of brain is						
	(A)	79	(B)	270			
	(G)	2200	(D)	410			
	(E)	Answer not known					
60.	Prot	ein content of buffalo milk is					
	(A)	about 3.9%	(B)	about 1.9%			
	(C)	about 3.0%	(D)	about 5.0%			
	(E)	Answer not known					
61.	Soft	scalding of poultry is done at					
-	(A)	60°C	(B)	55°C			
	(C)	$40-45^{\circ}\mathrm{C}$	(D)	<b>5</b> 0 − 51°C			
	(E)	Answer not known					
62.	Nati	ional research centre on yak is	locat	ted in the State of			
		Arunachal Pradesh	(B)	Mizoram			
	(C)	West Bengal	(D)	Tiripura			
	(E)	Answer not known					
63.	The	gestation period of Indian Elep	han	t is			
	(A)	<b>6</b> 15 – 650 days	(B)	600 - 610  days			

(C) 610 - 614 days

(E) Answer not known

(D) 590 - 600 days

64.	. The prevention of cruelty to animals act says that for drawing vehicle or carrying any load								
	(A)	any animal cannot be used							
	(B) any animal cannot be used for more 5 hours without break								
		(C) both (A) and (B) (D) where the temperature exceeds 102°F in afternoon							
	(D) (E)	Answer not known	eas 10	Z r in aiternoon					
65.	Elec	ctro thermo cautery is very us	seful if	the arterties are					
	(A)	large		medium sized					
	(C)	very very small	(D)	small					
	(E)	Answer not known							
66.	At V	Viborg's triangle, this pouch is	s opene	ed					
	(A)	Pharyngeal pouch	(B)	Laryngeal pouch					
	(G)	Guttural pouch	(D)	Urethral pouch					
	(E)	Answer not known							
67.	(1)	Diathermy is painful on app	plicatio	on					
	(2)	Cryo surgery is not painful							
	(3)	Little scarring in cryosurge	ry						
		✓2 is preferred as 3 is true	_	1 is right but 2 is wrong					
	(C)	3 is wrong	(D)	1 is wrong					
	(E)	Answer not known							
68.	The	common site of Hematoma in	n Horse	e is spur vein which is in					
	(A <b>)</b>	Thoracic region	(B)	Abdominal region					
	(C)	Lumbar region	(D)	Pelvic region					
	(E)	Answer not known							
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69. White "hair" marks in the processed X ray film is due to		
	(A) Dirt in cassette	(R) Hair in cassette
	(C) Too short FFD	(D) Static electricity
	(E) Answer not known	
70.	Derivation of Triplets from	
	Two Ova	
	$\downarrow$	
	an l	
		$(B)  \bigcup \qquad \bigcup$
	(C) O	(D) ( )
	(E) Answer not known	
71.	Super ovulation in cattle can be a	chieved by
	(A) Injection of oxytocin	(B) Injection of LH alone
	(C) Injection of FSH alone	(B) Both (B) and (C)
	(E) Answer not known	
72.	The component most commonly u	sed in extender for semen (in A.I.) is
	(A) Zgg yolk	(B) Milk
	(C) Pabulum	(D) Coconut Milk

(E) Answer not known

73.	Pro	ductive ovulatory cyst is		
	(A)	Follicular cyst	(B)	Luteal cyst
	(C)	Cystic corpus luteum	(D)	Both (A) and (B)
	(E)	Answer not known		
74.	In la	ate pregnancy of cow vaginal p	rolap	se is common due to the
	(A)	Increased intra abdominal pr	essui	<b>·e</b>
	(B)	Loosely attached vagina		
	(C)	Uterine inertia		
	(D)	Both (A) and (B)		
	(E)	Answer not known		
75.	Tru	e extra uterine pregnancy is ra	re in	
	(A)	Human	(R)	Domestic animals
	(C)	Wild animals	(D)	(B) and (C)
	(E)	Answer not known		
76.	Ovu	alation occurs in cow normally		
	(A)	After the end of Estrum		
	(B)	After the onset of Estrum		
	(0)	10-15 hrs after the end of E	strun	n
	(D)	One day after end of Estrum		
	(E)	Answer not known		
77.	Mos	st widely used natural hormon	e in	veterinary reproductive medicine
	(A)	Androgen	(B)	Estrogen
	(C)	Estradiol	(D)	Stilbestrol
	(E)	Answer not known		
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78. In Nutritional diseases primary deficiency means				ncy means			
	(A)	Dietary deficiency	(B)	Deficiency in Animal Health			
	(C)	Digestive abnormality	(D)	Absorption abnormality			
	(E)	Answer not known					
79.		nary cobalt deficiency in Tan nals	ilna	du will not be found in grazing			
	(A)	Tamilnadu soil is not deficien	t in c	cobalt			
	(B)	Farmers feed more cobalt in d	liet				
	(C)	(C) Cobalt is not essential for grazing animals					
	(D) Cobalt is non essential trace element						
	(E)	Answer not known					
80.	Proc	duction disease is termed also a	ıs				
	(A)	Gynaecological disease					
	(B)	Metabolic disease					
	(C)	Deficiency disease					
	(D)	D) Reproductive disease					
	(E)	Answer not known					
81.		cically acetonemia of cattle is but same in this aspect	diffe	erent from pregnancy toxemia of			
	(A)	Biochemical	(B)	Anatomical			
	(C)	Epidemiological	(D)	Gynaecological			
	(E)	Answer not known					

	(A)	Acid insoluble ash	(B)	Acid de	tergent fibre
	(C)	Lignin	(D)	Neutral	detergent fibre
	(E)	Answer not known			
09	Idon	stifu the folgo statement:			
83.		ntify the false statement:		ant wood	for arinding the argina
	(A)	Hammer mill and Roller mill	are i	iot usea .	for grinding the grains.
	(B)	Soaking and flaking are wet	proce	ssing me	thods of grain.
	(C)	Popping of grains ruptures the		-	
	(D)	Baling is a dry processing mo	ethod	for rough	hage.
	(E)	Answer not known			
84.	The	pH range of very good silage i	.s		
	(A)	4.2 to 4.5	(B)	3.5 to 4.	.2
	(C)	4.8 to 5.4	(D)	1.5 to 2.	.5
	(E)	Answer not known			
85.	Ider	ntify which is not correctly pai	red?		
	(A)	Starch, Amylase, Saliva			
	(B)	Protein, Pepsin, Stomach			
	(C)				
	` ,	Fibre, VFA, Simple stomach	anim	als, dog	
	(E)	Answer not known		, 0	
86.	The	DCP content of paddy straw i	Q		
00.	(A)		(B)	10%	
		0% (zero)	` ′	15%	
	(E)	Answer not known	(دد)	10/0	
	(E)	Willeman Hor Willowin			
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82. A major factor regulating forage intake in ruminants is

87.	7. Match the following energy supplements:					
	(a) Root tuber	1. Cerea	al by product			
	(b) Rape seed	2. Horse	gram			
	(c) Maize bran	3. Casa	<i>7</i> a			
	(d) Legume	4. Oil ca	ke			
	(a) (b) (c)	(d)				
	(A) 4 2 3	1				
	<b>(B)</b> 3 4 1	2				
	(C) 1 3 2	4				
	(D) 2 1 4	3				
	(E) Answer not know	n				
88.	Which segment of the absorption?	ne digestive	e tube is the major site of sodium			
	(A) Stomach		(B) Small Intestine			
	(C) Large Intestine		(D) Rectum			
	(E) Answer not know	n				
89.	In dairy cattle during	g the last	two months of gestation the general			
	recommended addition	al allowanc	e of DCP and TDN is			
	(A) $0.7 \text{ kg} \text{ and } 0.14 \text{ kg}$	ğ	(R) $0.14$ kg and $0.7$ kg			
	(C) 0.5 kg and 1 kg		(D) 0.75 kg and 1.5 kg			
	(E) Answer not know	n				
90.	Goose stepping gait deficiency of what nutr		ted in which animal species due to			
	(A) Calves and Coppe	er	(B) Swine and Copper			
	(C) Swine and Zinc		(D) Swine and Calcium			
	(E) Answer not know	n				
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	cake?					
	(A)	Sinigrin	(B)	Gassy pol		
	(C)	Mimosine	(D)	Dhurrin		
	(E)	Answer not known				
92.	Whi	ch is the organ producing the a	ctive	e form of vitamin D?		
	(A)	Liver	(R)	Kidney		
	(C)	Skin	(D)	Lungs		
	(E)	Answer not known				
93.	'Cur	led toe paralysis' is caused by t	he d	eficiency of		
	(A)	Vitamin B1	(B)	♥itamin B2		
	(C)	Vitamin B6	(D)	Vitamin B12		
	(E)	Answer not known				
94.	The	major precursor of milk fat con	ıtain	s		
	(A)	Propionic acid	(B)	Butyric acid		
	(6)	Acetic acid	(D)	Valeric acid		
	(E)	Answer not known				

What is the name of the Anti nutritional factor present in cotton seed

91.

## 95. Match the following:

- (a) Calcium soaps
- 1. UDP

1

- (b) PUFA
- 2. By-pass Fat
- (c) By-pass protein
- 3. Feed additive
- (d) Lecithin
- 4. Polyunsaturated fatty acid
- (a) (b) (c) (d) (A) 2 4 1 3
- (B) 4 2 3
- (C) 1 2 3 4
- (D) 3 1 2 4
- (E) Answer not known

## 96. Match the following:

- (a) Tree leaves
- 1. Lucerne
- (b) Legume fodder
- 2. Grasses
- (c) Jowar
- 3. Subabul
- (d) Napier
- 4. Cereal fodder
- (a) (b) (c) (d)
- (A) 2 4 3 1
- (B) 1 2 4 3
- (C) 4 1 2 3 (D) 3 1 4 2
- (E) Answer not known

97.	Consider the fo	llowing statem	ents:					
	Assertion (1):	Chickens hav	e a high g	glycine requirement				
	Reason (2):	Glycine is an	integral p	part of uric acid				
	(A) Both 1 an	d 2 are true an	d 2 is the	reason for 1				
	(B) Both 1 and 2 are true, 2 is not the correct reason for 1							
	(C) 1 is true b							
	(D) Both 1 and 2 are false							
	(E) Answer no	ot known						
98.	For efficient utilization of urea by cattle the following ratio of nitrogen: sulphur is recommended in the feedstuff.							
	(A) 5:5		(B)	1:10				
	(C) 10:1		(D)	1:1				
	(E) Answer no	ot known						
99.	As per BIS (2 starter and fini	• •	•	b) content of broiler	pre-starter,			
	(A) 20%, 22%	and 23%	(B)	22%, 23% and 20%				
	(C) 23%, 20%	and 22%	(D)	23%, 22% and 20%				
	(E) Answer no	ot known						
100.	'Chewing the co	ud' is the chara	cteristic f	eature of	•			
	(A) Dog		(B)	Horse				
	(S) Ruminant	SS	(D)	Birds				
	(E) Answer no	ot known						

- 101. The protein and energy requirement of Bullock which is used for ploughing the land 6 hours in a day is
  - (A) 420 g DCP and 3.8 kg TDN (B) 450 g DCP and 4.2 kg TDN

  - (C) 570 g DCP and 4.8 kg TDN (D) 630 g DCP and 5.6 kg TDN
  - (E) Answer not known
- 102. Which one of the following conditions is necessary for effective diagnosis of anaerobic infections (bacterial)?
  - (A) Streaking on eosin-methylene blue agar
  - (B) Rapid transport of culture to the laboratory
  - (C) Assay for super oxide dismutase
  - (D) Sputum sampling
  - (E) Answer not known
- 103. Which of the following statement concerning viral transcription is correct?
  - (A) It occurs in a specific temporal pattern for most RNA and DNA viruses.
  - (B) It involves virion transcriptase for negative-sense, enveloped RNA viruses.
  - (C) It occurs in the nucleus for proviruses.
  - (D) It may be inhibited by amantadine hydrochloride.
  - (E) Answer not known
- 104. Vent disease in rabbits is caused by
  - (A) Serpulina spp

(B) Leptospira spp

(C) Salmonella spp

- (D) Escherichia coli
- (E) Answer not known

105.	The	source of psittacosis in man is		
	(A)	Chickens	(B)	Ducks
	(G)	Parakeets	(D)	Sparrows
	(E)	Answer not known		
106.	Hun	nans will not develop undulant	feve	r when infected wilt
	(A)	Brucella abortus	(B)	Brucella Scris
	(C)	Brucella ovis	(D)	Brucella neotomae
	(E)	Answer not known		
107.	Can	ned food is responsible for food	pois	oning due to
	(A)	Clostridium botulinum toxins	(B)	Clostridium welchii toxins
	(C)	Salmonella toxins	(D)	Staphylococcal entero toxins
	(E)	Answer not known		
108.	Bub	onic plague in man is caused by	y	
	(A)	Yersinia pestis	(B)	Yersinia pseudo tuberculosis
	(C)	Salmonella typhi	(D)	Mycobacterium tuberculosis
	(E)	Answer not known		
109.		A synthesis enzyme required is		
	(A)	DNA polymerase	(B)	Ligase
	(C)	Proteinase	(D)	RNA Polymerase
	(E)	Answer not known		
110.	Spor	ring rods of this gives a typical	'Dru	m - Stick' appearance
	(A)	Clostridium tetani	(B)	Clostridium chauvoei
	(C)	Clostridium botulinum	(D)	Clostridium novyi
	(E)	Answer not known		
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	(A)	R.Koch	(B)	Lister
	(C)	F.Hesse	(D)	Schroeter
	(E)	Answer not known		
112.	Myc	obactin dependency in primary	cult	ures is seen in
	(A)	Mycobacterium bovis		
	(B)	Mycobacterium avium		
	(C)	Mycobacterium tuberculosis		
	(D)	Mycobacterium paratuberculo	sis	
	(E)	Answer not known		
113.	Ster	ilization in steam under pressu	re is	done at
	(A)	105°C for 20 minutes	(B)	115°C for 15 minutes
	(G)/	121°C for 15 minutes	(D)	124°C for 30 minutes
	(E)	Answer not known		
114.	Chir	nese letter pattern in stained sr	near	indicates the presence
	(A)	Coryne bacterium diphtheria	(B)	Pasteurella multocida
	(C)	Bacillus anthracis	(D)	
	(E)	Answer not known		
115.	Cell	ular phagocytic theory of immu	nity	was proposed by
	(A)	Bordet		Metchnikoff
	(C)	L.Pasteur	(D)	Pfeiffer
	(E)	Answer not known		

111. Pure culture of bacterial isolation by dilution method was first used by

116.	Nag	ler reaction is a neutralization	test	to demonstrate
	(A)	Clostridium perfringens type	A	
	(B)	Clostridium perfringens type	D	
	(C)	Bacillus sphaericus		
	(D)	Clostridium baratti		
	(E)	Answer not known		
117.		25 of 2000 cows were test-post nate of the prevalence of reacto		for enzootic bovine leukosis, then the population would be
	(A)	0.63%	(B)	3.60%
	(C)	6.30%	(D)	63%
	(E)	Answer not known		
118.	Grov	wth of most of the pathogenic b	acte	ria is supported by
	(A)	Brilliant green agar	(B)	Mac Conkey agar
	(C)	Edward medium	(D)	Blood agar
	(E)	Answer not known		
119.		symmetric protein shell of th	e vir	ruses which encloses bird nucleic
	(A)	Capsid	(B)	Capsomer
	` '	Envelope	(D)	Nucleocapsid
	(E)	Answer not known		
120.	Scle	nite broth is a selective liquid r	nedi	a for the growth of
	(A)	Escherichia coli	(B)	Salmonella spp
	(C)	Staphylococcus aureus	(D)	Staphylococcus intermedius
	(E)	Answer not known		

	(A)	Antony Van Leeuwenhoek	(B)	Elford				
	(C)	L.Pasteur	(B)	Ruska				
	(E)	Answer not known						
122.	Whi	ch of these is a not a general pa	atter	n of viral morphology?				
	(A)	Enveloped helical	(B)	Complex helical				
	(C)	Enveloped Icosahedral	(D)	Naked Icosahedral				
	(E)	Answer not known						
123.	Traditional media for primary isolation of fungi is							
	(A)	Mac Conkeys agar	(B)	MRS agar				
	(C)	Nutrient agar	(D)	Sabourand dextrose agar				
	(E)	Answer not known						
124.	Vira	l infections are difficult to trea	t bec	ause				
	(A)	there is no drug available						
	(B)	drugs that affect virus replication cause side effects						
	(C)	there is no vehicle for delivery of drugs into cell						
	(D)	drug receptors are not found in viruses						
	(E)	Answer not known						
125.	Bact	eria can acquire exogenous res	istar	nce genes via				
	(A)	Conjunction	(B)	Transduction				
	(C)	Transformation	(D)	Transposition				
	(E)	Answer not known						

121. Electron microscope was introduced by

126.	A m	icrobe	that h	as pote	entia	l in l	oioremedi	iation of r	adioact	ive waste	e is
	(A)		lus Sul	_			_				
	(C)			ıs faeca	alis		` /	oxophiles			
	(E)	Answ	er not	known	1		` '	•			
	` ,										
127.	Ass	ertion	(A): ]	Dogs a	re go	od sı	niffers ha	ving a ke	en sens	e of smel	1.
	Rea	son (R)		Ethmoi nasal c		conclave are well developed and larger than ave.					
	(A)	Both	(A) an	d (R) a	re fa	lse.					
	(B)	(A) is	true b	out (R)	is fal	lse.					
	(C)										
	(D)										
	(E)			known							
128.	Mat	ch the	follow	ing:							
				_							
	(a)	Os ros	stri			1.	Fowl				
	(b)	Comp	lete tra	acheal	ring	2.	Syrinx				
	(c)	Ferve	strated	l pleur	a	3.	Right lur	ng			
	(d)	Voicel	oox of f	owl		4.	Pig				
	(e)	Medie	entinal	lobe		5.	Horse				
		(a)	(b)	(c)	(d)	(e)					
	(A)	1	2	3	4	5					
	(B)	2	4	1	3	5					
	(C)	4	1	5	2	3					
	(D)	3	5	1	2	4					
	(E) Answer not known										

129.	Stenson's duct of parotid salivary gland opens in the oral cavity at the level of upper fifth cheek tooth in a papilla called							
	(A)	Papilla incisive	(B)	Papilla linguae				
	(C)	Papilla selivalis	(D)	Sublingual caruncle or berb				
	(E)	Answer not known						
130.	Iden	tify which is not properly paire	ed?					
	(A)	Margo plicatus, stomach of ho	rse					
	(B)	(B) Paired caeca, fowl						
	(C) Oyster shell shape, spleen of goat							
	(D)	(D) Comma shaped caecum, ox						
	(E)	Answer not known						
131.	The	Principle organ of prehension i	n ca	ttle is				
	(A)	Lips and tongue	(B)	Lips				
	(C)	Tongue	(D)	Tongue and Teeth				
	(E)	Answer not known						
132.	Sinuatrial Node (SA node) is the pacemaker of the heart for generation of electrical impulses located in the							
	(A)	Inter-atrial septum	(B)	Inter-ventricular septum				
	(G)/	Right atrial wall	(D)	Right ventricular wall				
	(E)	Answer not known						

133.	The dog		the	point of elbow in the forelimb of
	(A)	Olecraren process of Ulna		
	(B)	Acromiar process of Scapula		
	(C)	Deltoid tuberosity of Humerus	s	
	(D)	Styloid process of Radius		
	(E)	Answer not known		
134.		fastest four beat gait encount to 8 meters is referred to as	ered	in animals with a step length of
	(A)	Trot	(B)	Pace
	(G)	Gallop	(D)	Walk
	(E)	Answer not known		
135.		isci is an intra articular culating bones in		_
	(A)	knee joint	_	stifle joint
	(C)	atlantoaxial joint(D)	•	k joint
	(E)	Answer not known		
136.	Whi	ch are the bones that are excav	ated	to contain air spaces?
	(A)	Splanchnic bones	(B)	Pneumatic bones
	(C)	Sesamoids	(D)	Spongy bones
	(E)	Answer not known		
137.	Pear	r shaped organism lie in pairs f	ormi	ng an acute angle in RBCs is
	(A)	Baliesia Sibsoni	(B)	Fheileria Annulata
	(C)	Anaplasma Marginate	(B)	<b>B</b> aliesia Bigemina
	(E)	Answer not known		

138.	Rectal coccidiosis in poultry is caused by							
	(A)	Eimeria tenella	(R)	Eimeria brunetti				
	(C)	Eimeria necatrix	(D)	Eimeria acerucetina				
	(E)	Answer not known						
139.	Prin	nary amoebic mening encephal	litis i	n man is caused by				
	(A)	Giardia canis	(B)	Naegleria fowleri				
	(C)	Entamoeba histolytica	(D)	Entamoeba coli				
	(E)	Answer not known						
140.	Blue	e tongue virus of sheep is trans	mitte	ed by				
	(A)	Black fly	(B)	No-see-UMS				
	(C)	Aedes mosquito	(D)	House fly				
	(E)	Answer not known						
141.	The fungi pilobolus is involved in the translation of larvae of							
	(A)	Fetaroides osteri	(B)	Dirofilaria repens				
	(C)	Wuchereria bancrofti	(D)	Dictyo caulus viviparus				
	(E)	Answer not known						
142.	Cutaneous larva migrans is caused by							
	(A)	Toxocara lanis	(B)	Toxocara leonina				
	(C)	Ancylostoma caninum	(D)	Diphylobothrium latum				
	(E)	Answer not known						
143.	The	colour taken by fat upon osmic		•				
	(A)	Red	(B)	Black				
	(C)	Yellow	(D)	Pink				
	(E)	Answer not known						
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144.	Accu	amulation of stone dust in the l	ung	is known as
	(A)	Anthracosis	` '	Siderosis
	(C)	Silicosis	(D)	Chalicosis
	(E)	Answer not known		
145.	The	track that connects two epithel	ial s	urfaces
	(A)	Boil	(R)	Fistula
	(C)	Sinus	(D)	Pustule
	(E)	Answer not known		
146.	In G	out, which of the crystals depos	sited	in tissues
	(A)	Oxalate	(B)	Urate
	(C)	Phosphate	(D)	Nitrate
	(E)	Answer not known		
147.	An i	ncreased serum ALT actively in	ndica	ates liver damage in
	(A)	Cow	(B)	Pig
	(G)	Dog	(D)	Horse
	(E)	Answer not known		
148.	A ha	all mark of regenerative anaem		
	(A)	Increase in reticulocyte count	(B)	Nucleated RBCs
	(C)	Anisocytosis	(D)	Howell folly bodies
	(E)	Answer not known		
149.	Bru	cellosis in cone causes abortion	duri	ng
	(A)	2-3 <sup>rd</sup> month of gestation	(B)	4 <sup>th</sup> -5 <sup>th</sup> month of gestation
	(C)	5 <sup>th</sup> -6 <sup>th</sup> month of gestation	(D)	7th-8th month of gestation
	(E)	Answer not known		
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	(A)	Guarnieri body	(B)	Nigri body
	(C)	Bollinger body	(D)	Henz body
	(E)	Answer not known		
151.	High	nly contagious immuno suppre	ssive	disease of young chicken
	(A)	Fowl typhoid	(B)	New castle disease
	(C)	Chronic respiratory disease	(B)	Infections bursal disease
	(E)	Answer not known		
152.		streaks of haemorrhage on the	e fold	ls of mucosa of rectum resenables
	(A)	FMD	(B)	Hog cholera
	(C)	Rinder pest	(D)	Bovine viral diarrhoea
	(E)	Answer not known		
153.		mortality in Entero toxem	ia ir	n sheep caused by clostridium
	(A)	20%	(B)	50%
	(C)	70%	(D)	100%
	(E)	Answer not known		
154.	Abno	ormal curvature and dorsal pro	omin	ence of spene is known as
	(A)	Lordosis	(B)	Scoliosis
	(6)	Kypliosis	(D)	Torticollis
	(E)	Answer not known		

150. In Fowl Pox, the intia cytoplasmic inclusion body is called as

155.	Proliferation of epithelial cells results in epithelial crescents seen in						
	(A)	sub acute glomerulo nephritis	(B)	acute glomerulo nephritis			
	(C)	chronic glomerulo nephritis	(D)	pyelo nephritis			
	(E)	Answer not known					
156.	Rup	tured immature neutrophils ar	e cal	led as			
	(A)	Smudge cells	(B)	Ghost cells			
	(G)	Basket cells	(D)	Dohce's bodies			
	(E)	Answer not known					
157.		<del>-</del>	n ye	ellowish white cloacae discharge			
		laying of eggs without shell is					
	(A)	Prosthagonimus ovatus	(B)	Chonorchis sinensis			
	(C)	Heterophyes heliophyes	(D)	Echinostoma revolutum			
	(E)	Answer not known					
158.	For	routine haematology test, the n	nost	suitable anti coagulant vial is			
	(A)	Heparin Vial	(B)	EDTA Vial			
	(C)	Oxalate Vial	(D)	Fluride Vial			
	(E)	Answer not known					
159.	Нуре	o static congestion which occur	s aft	er death is known as			
	(A)	Agonal congestion		Anti mortem congestion			
	(0)	Post mortem congestion	, ,	Post gonal congestion			
	(E)	Answer not known	` /				
	\ <del>'</del> /						

160.	. Mega colon and mega oesophagus is caused by				
	(A)	Trypanosoma cruzi	(B)	Trypanosoma sambiense	
	(C)	Trypanosoma brucei	(D)	Trypanosoma Rhodesians	
	(E)	Answer not known			
161.	Che	mical mule sing is done by usin	ıg		
	` '	10% NaOH	(B)	20% ethyl alcohol	
	(C)	40% phenol	(D)	10% KMnO4	
	(E)	Answer not known			
162.	Amp	olification of DNA by PCR requ	ires		
	(A)	Probes	(B)	Primers	
	(C)	Histones	(D)	Phosphate	
	(E)	Answer not known			
163.		Eukaryote chromosome, id romere placed at centre is calle		eal daughter chromatid with	
	(A)	Metacentric	(B)	Sub metacentric	
	(C)	Telocentric	(D)	Acrocentric	
	(E)	Answer not known			
164.	Euk	aryotic ribosomes are having			
	(A)	80s, 60s and 40s	(B)	70s, 50s and 30s	
	(C)	23s, 16s and 5s	(D)	28s, 18s and 5s	
	(E)	Answer not known			

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	(E)	Answer not known		
		Kalamasi	(D)	Tellicherry
	(A)	Aseel	(B)	Bursa
170.	Blac	ck coloured meat found in		
	(22)	TARRON OF ABOV AREAUTHER		
	(E)	Answer not known	(1)	
	(C)	1968		1973
100.	(A)	1943	_	1953
169	DNA	A structure was first deduced	l during	or and a second
	(E)	Answer not known		
	(C)	1:2:1	(D)	3:1
	(A)	1:1	(B)	1:1:1:1
168.	Nor	mal test cross phenotypic rat		
	(11)			
	(E)	Answer not known	(D)	0.0.1
	• •	9:3:3:1	` '	9:6:1
167.	Nor:	mal Dihybrid phenotypic rat 1:2:1:2:4:2:1:2:1	ion in F (B)	
	. ,			
	(E)	Answer not known	` ,	
	` '	Somatic cells		Germ cells
100.	(A)		(B)	Spermatozoa
166.	Mite	otic cell division occurs in		
	(E)	Answer not known		
	(C) <b>✓</b>	Nucleotides	(D)	Sugar molecules
	(A)	*	(B)	Bases
165.	Wha	at are the repeating units of	nucleic	acids?

171. Progeny testing is used for selections of

(A) Bulls

(B) Cows

Calves (C)

- (D) Heifers
- **(E)** Answer not known

172. The co-efficient of inbreeding is measured by a formula

(A) 
$$Fxy = \sum_{i=1}^{n} \frac{1}{2} n_i + n_2 + xy$$

(A) 
$$Fxy = \sum_{i=1}^{\infty} \frac{1}{2} n_1 + n_2 + xy$$
 (B)  $Fx = \sum_{i=1}^{\infty} \frac{1}{2} n_1 + n_2 + 1(1 + FA)$ 

(C) 
$$Fy = \sum_{1/2} \frac{1}{n_1} + n_2 + 1(1 + FB)$$
 (D)  $Fx = \sum_{1/2} \frac{1}{n_1} + n_2 + FA(1 + FA)$ 

(E) Answer not known

173. Jamaica Hope, a synthetic cattle breed developed in Jamaica by crossing

- (A) Jersey/Redsindhi/Holstein
- (B) Jersey/Sahiwal/Holstein
- (C) Jersey/Brahman/Angus
- (D) Jersey/Tharparkar/Local cattle of Jamaica
- (E) Answer not known

174. Heritability value of milk yield in cattle

(A) 0-10%

(B) 30-40%

(C) 50-80%

- (D) 20-25%
- (E) Answer not known

175. In poultry, females are

(A) Homogametic

(B) Heterogametic

(C) Hemizygous

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

	(A)	single gene	(B)	poly gene
	(C)	additive gene	(D)	epistatic gene
	(E)	Answer not known		
177.	Inbr	eeding co-efficient of an offspri	ing o	f a full brother and sister mating
	is			
	(A)	12.5%	( <b>B</b> )	25%
	(C)	50%	(D)	62.5%
	(E)	Answer not known		
178.	Co-e	efficient of relationship betweer	ı two	
	(A)	100%	(B)	50%
	(C)	25%	(D)	75%
	(E)	Answer not known		
	_			
179.	Synt	thetic sheep breed developed by	TA.	NUVAS
	(A)	Nilgiri	. ,	Madras Red
	(C)	Mecheri		Sandyno
	(E)	Answer not known		
190	Shor	on hand with block and colour		
100.		ep breed with black coat colour		Their hands
		Salem black	(D)	Trichy black
	(C)	Coimbatore	(D)	Vembur
	(E)	Answer not known		

176. Economic traits in farm animals are due to

181.		decision by the farmer to inue to use it is called	apply	y an	innovation/technology and	
	(A)	Innovation	(B)	Rejec	etion	
	(C)/	Adoption	(D)	Pers	uasion	
	(E)	Answer not known				
182.	Blood meal is rich in the amino acid					
	(A)	tryptophan	(B)	isole	ucine	
	(C)	<b>1</b> ysine	(D)	cysti	ne	
	(E)	Answer not known				
183.	83. Nomenclature for adult female duck is					
	(A)	Gader	(B)	Tom		
	(C)	Drake	(D)	Cock		
	(E)	Answer not known				
184.	Whic	ch farming system contribute ce?	50%	or n	nore receipts from a single	
	(A)	Mixed farming	(B)	Speci	alised farming	
	(C)	Diversified farming	(D)	Arab	le farming	
	(E)	Answer not known				
185.	What is the moisture content of built up litter material in deep litter housing?					
	(A)	10-15%	(B)	15-20	0%	
	(C)	20-25%	(D)	25-30	)%	
	(E)	Answer not known				

	(A)	10 yrs	(B)	11 yrs
	(C)	12 yrs	(D)	14 yrs
	(E)	Answer not known		
187.	Sexu in	ual dimorphism with female we	eighi	ng heavier than male is observed
	(A)	Turkey	(R)	Guinea fowl
	` '	•	` '	Japanese quail
	(C)	Duck	(13)	Japanese quan
	(E)	Answer not known		
188.	8. End product of protein metabolism in poultry is			oultry is
	(A)	Nitrogen	(B)	Urea
		Uric acid	. ,	Ammonia
	, .	Answer not known	` /	
189.	Phys	siological zero temperature for	hatc	hing egg is
	(A)	20°C	(B)	15°C
	(C)	<b>2</b> 4°C	(D)	18°C
	(E)	Answer not known		
190	Rint	h of hairless piglet is due to the	dof	aionay of
150.				
		copper		
	(C)	zinc		iodine
	(E)	Answer not known		

186. What is the average lifespan of goat?

	(A)	super compost	(B)	close packing			
	(C)	turning over	( <b>D</b> )	composting			
	(E)	Answer not known					
192.		method of feeding followed in naximum	hig	h yielding dairy cows to produce			
	(A)	complete feeding	(B)	challenge feeding			
	(C)	flushing	(D)	creep feeding			
	(E)	Answer not known					
193.	. Water containing ammonia and nitrite indicates						
100.	(A)	<del></del>		Faecal contamination			
	(C)			Organic contamination			
	(E)	Answer not known	(D)	Organic contamination			
	(E)	Allswer not known					
194.	A rai	A ram castrated after service is called					
	(A)	Gimmer	(B)	Seggy			
	(C)	Crone	(D)	Barren			
	(E)	Answer not known					
195.	New born Piglet mortality is mainly due to						
	(A)	Piglet anaemia	(B)	Crushing by mother			
	(C)	Cannibalism		Enteritis			
	(E)	Answer not known	` /				
	\ <del>-</del> /						

191. The process of decomposting organic waste is termed as

196.	6. The rams are allowed to stay with the ewes only during night how fed separately during daytime in			ewes only during night hours and		
	(A)	flock mating	(B)	hand mating		
	(C)/	pen mating	(D)	pasture mating		
	(E)	Answer not known				
197.	Bree	eding age of Pigs/Gilts is				
	(A)	8-9 months	(B)	9-10 months		
	(C)	10-11 months	(D)	11-12 months		
	(E)	Answer not known				
198.	Time	Time of ovulation in cattle is				
	(A)	12-16 hours before the end of	estrı	ıs		
	(B)	(B) 12-16 hours after end of estrus				
	(C)~	(C) 12-16 hours after the onset of estrus				
	(D)	At standing heat				
	(E)	Answer not known				
199.	First animal to be inseminated is the one which is					
	(A)	Mounting				
	(B)	Allowing other animals to mor	unt			
	(C)	(C) Bellowing				
	(D)	Restless animal				
	(E)	Answer not known				
200.	Female cattle over one year, just attain maturity					
	(A)	Heifer	(B)	Calf		
	(C)	Buller	(D)	Yearling		
	(E)	Answer not known				
		<del></del>		·		