DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

Booklet Serial No.

003534

Test Booklet Series

TEST BOOKLET - 2020 VETERINARY ASSISTANT SURGEON (02)



Time Allowed: Two Hours

Maximum Marks: 120

INSTRUCTIONS

- 1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- 2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet/Response Sheet. Any omission/discrepancy will render the Answer Sheet/Response Sheet liable for rejection.
- 3. You have to enter your Roll Number on the

 Test Booklet in the Box provided alongside.

 DO NOT write anything else on the Test Booklet.
- 4. This Test booklet contains 120 items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose *ONLY ONE* response for each item.
- 5. You have to mark all your responses *ONLY* on the separate Answer Sheet/Response Sheet provided. See directions in the Answer Sheet/Response Sheet.
- 6. All items carry equal marks.
- 7. Before you proceed to mark in the Answer Sheet/Response Sheet, the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet/Response Sheet as per instructions sent to you with your Admission Certificate.
- 8. After you have completed filling in all your responses on the Answer Sheet/Response Sheet and the examination has concluded, you should hand over to the Invigilator only the Answer Sheet/Response Sheet. You are permitted to take away with you the Test Booklet and Candidate's Copy of the Answer Sheet/Response Sheet.
- 9. Sheets for rough work are appended in the Test Booklet at the end.
- 10. While writing Centre, Subject and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use "ONLY BALL POINT PEN".

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area	le breeding policy of the state results and % for plains of subtro			
A)	75 and 50	B)	50 and 75	
C)	62 and 50	D)	50 and 62	
Q.2) The	suitable selection aid for high her	ritable	traits is	
A)	Sib selection	B)	Pedigree selection	
C)	Family selection	D)	Individual selection	
Q.3) Epi	stasis is			
A)	Inter allelic interaction			
B)	Intra allelic interaction			
C)	Intra and Inter allelic interaction	on		
D)	Genotype-Environment intera	action		
cros	e mean performance of line when sses is:		essed as the deviation from	the mean of all
cros	sses is: General combining ability of li		essed as the deviation from	the mean of all
cros	General combining ability of li Average effect of the line	ine		the mean of all
cros	sses is: General combining ability of li	ine		the mean of all
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Cross A) B) C) D)	General combining ability of li Average effect of the line General and Specific combing a	ine ability		the mean of all
A) B) C) D)	General combining ability of li Average effect of the line General and Specific combing a Specific combing ability of line	ine ability		the mean of all
C) D) Q.5) Farm	General combining ability of li Average effect of the line General and Specific combing a Specific combing ability of line mer's lung is caused due to	ine ability	ofline	the mean of all
Cross A) B) C) D) Q.5) Farm A) C)	General combining ability of li Average effect of the line General and Specific combing a Specific combing ability of line mer's lung is caused due to Mouldy silage	ability B)	of line Mouldy hay	the mean of all
Cross A) B) C) D) Q.5) Farm A) C)	General combining ability of li Average effect of the line General and Specific combing a Specific combing ability of line mer's lung is caused due to Mouldy silage Immature sorghum fodder	ability B)	of line Mouldy hay	the mean of all
Cross A) B) C) D) Q.5) Farm A) C) Q.6) Fee	General combining ability of li Average effect of the line General and Specific combing a Specific combing ability of line mer's lung is caused due to Mouldy silage Immature sorghum fodder ding standards do not consider	ability B) D)	of line Mouldy hay	the mean of all
Cross A) B) C) D) Q.5) Farm A) C) Q.6) Fee A)	General combining ability of li Average effect of the line General and Specific combing a Specific combing ability of line mer's lung is caused due to Mouldy silage Immature sorghum fodder ding standards do not consider Production Level of Livestock	ability B) D)	of line Mouldy hay	the mean of all

(3)

02(B)

[P.T.O.

Q.7)	Start	on equivalent system is based on		
	A)	NE & Digestible True Protein	B)	DCP, TDN & NE
	C)	DCP & TDN	D)	DM, DCP & TDN
Q.8)	Ame	ethod of determining the least-cos	t ratio	n using a series of mathematical equations.
	(A)	Pearson Square method	B)	Algebraic method
	C)	Linear Programming	D)	Two by Two Matrix method
Q.9)	The	corpus hemorragicum:		
	A)	Develops from a follicle soon af	ter it	ovulates.
	B)	Is the largest of the luteal structu	res fo	ound in the ovary.
	C)	Produces maximal amounts of p	roges	terone.
	D)	Develops into a Graafian follicle	÷.	
Q.10)) The	e luteolytic factor originating fron	the u	uterus is
	A)	Oxytocin	B)	Progesterone
	C)	PGF ₂ alpha	D)	Estrogen
Q.11	l) Mo	re number of rotations in the torsi	oned	cow may lead to
	A)	Uterine rupture	B)	Uterine inertia
	C)	Uterine eversion	D)	None of the above
Q.12	2) CL	of pregnancy is called as		
	A)	haemorhagicum	B)	albicans
	C)	nigrum	D)	verum
Q.13	3) The	e number of isolation pens require	d in a	piggery is
	A)	10 % of total stock	B)	5 % of total stock
	C)	15 % of total stock	D)	20 % total stock

(4)

02(B)

Q.1	4) The	e deficiency of which nutrient caus	ses G	rass staggers in milch animals?
	A)	Manganese	B)	Magnesium
	C)	Sodium	D)	Chlorine
Q.1	5) As j	per Olver (1938) which of the follo	wing	cattle breed entered India along with Aryans
	A)	Deoni	B)	Hariana
	C)	Tharparkar	D)	Punganur
Q.1	ecos			each other as members of food chains and e and decompose, they enrich the soil with
	A)	A& R are true and R is the corre	ct exp	planation of A
	B)	A&R are true and R is the not co	rrect	explanation of A
	C)	A is true but R is false		
	D)	A is false but R is true		
Q.1		nich of the following is not an acceptance consumption Metomidate Euthasol	B) D)	e means of euthanasia in animals intended for Pentasol CO_2
Q.1	,	ssertion (A): Ketamine is comb ason (R):Xylazine causes muscle		with xylazine for better anaesthesia ()
	A)	A & R are true and R is the corre	ect ex	planation of A
	B)	A & R are true and R is the not of	correc	et explanation of A
	C)	A is true but R is false		
	D)	A is false but R is true		
0.1	0) Fo	r calculation of acidity in milk, the	he fol	lowing solutions are used
Q.1				iowing solutions are asea
	A)	1N Sulphuric acid & Methelene	blue	
	B)	2 N HCl & Methyl orange		
	C)	1N NaOH 7 Methyl red		
	D)	0.1N NaoH & Phenopthelene		
020	R)		(5)	IP.T.O.

Q.20) W	Thich of the following property	indicate	es the resistance to flow
A)	Refractive Index	B)	Acidity
C)	Viscosity	D)	Surface tension
Q.21) M	ilk sugar contains the following.		
A)	Glucose + galactose	B)	Glucose + Fructose
C)	Galactose + sucrose	D)	Glucose + Mannose
Q.22) Fu	all form of CIP is		
A)	Clean in place	B)	Cleaning in place
C)	Clean in plant	D)	Clean parts
Q.23) A	GMARK special grade ghee is m	narked in	1
A)	Green letters	B)	Red letters
C)	Yellow letters	D)	Chocolate letters
0.00 5			
4			rythrocytes of Poultry and Human beings is
A)	Avian paramyxo virus	B)	DNA Herpes virus
C)	Pox viridiae	D)	Corona virus
Q.25) Pla	aque forming units (PFUs) for M	ſarek's v	vaccine per dose should be in the range of
A)	2000-7000	B)	50-100
C)	10-50	D)	1-5
Q.26) Th	e class of immunoglobins used	to detec	t early infection in animals is
A)	IgA	B)	IgG
C)	IgM	D)	IgE
02(B)		(6)	

O.27) The	minimum age for active imr	nunization	by vaccination of a calf which	h has suckled
	cient quantity of colostrum i			
A)	4 weeks	B)	9 weeks	
C)	2 months	D)	3 months	
Q.28) Cor	nsider the following stateme	nts Which o	one of the following statemen	nt is correct
A)	Composition of clarifier sl	ime (moist)	has water content 28.9	
B)	Composition of clarifier sl	ime (moist)	has fat content 22.1	
C)	Composition of clarifier sl	ime (moist)	has protein content 25.9	
D)	Composition of clarifier sl			
Q.29) Co	nsider the following stateme	ents Which	one of the following stateme	nt is correct?
A)	Soft curd has a curd tensio	n less than 2	25g	
B)	Soft curd milk contains hig	gh casein		
C)	Soft curd milk contains hig	gh calcium	content	
D)	Curd tension of Human mi	ilk contains	100g	
Q.30) Be	eta–lactoglobulins comprises	approxima	tely — the total	whey proteins.
A)	1/2	B)	1/3	
C)	1/4	D)	1/5 (2000) (2000) (2000)	
Q.31) La	actose is disaccharide contain	ning:		
A)	Glucose & Fructose	B)	Glucose & Galactose	
C)	Glucose & Glucose	D)	Glucose & Maltose	
Q.32)—	gives intense b	lue colour v	vith starches.	
A)	Iodine solution	B)	Sugar solution	
C)		D)	Boric acid solution	
02(B)		(7)		[P.T.O.

Q.33) P	Paneer shall not contain more than ——	percent moisture and the milkfat				
co	ontent shall not be less than ——— pe	rcent on dry matter.				
A)	B)	70/50				
C)	D)	30/15				
Q.34) W	Which one of the following statement is o	correct				
A)	UHT process leads to organoleptic c value significantly	hanges in milk and changes the nutritional				
В)	The high-heat pasteurization and ultra- sterility	nigh heat treatment not achieves 'commercial				
C)	HTST pasteurization completely inact	ivates the enzyme alkaline phosphatase				
D)	The heat treatment increases the salt e	quilibrium in milk.				
Q.35) GC	CMMF———					
A)	Gujarat Cooperative Milk Marketing F	ederation				
B)	Gujarat Cooperative Marketing Milk l	Federation				
(C)	Gujarat Centre Milk Marketing Federation					
D)	Gujarat Centre Marketing milk Federa	ation				
Q.36) Cos	onsider the statements Which of the follows:	wing statement is correct				
A)	Buffalo milk is preferred for manufacture with sweet taste.	eture of khoa as it results in higher yield,				
B)	14 kg of buffalo milk or 15 kg of cow i	nilk yield one kg of khoa				
C)	The colour of khoa becomes intense with pigment.	brownish tinge due to formation of carotein				
D)	Higher the moisture content in khoa, lo	wer the yield and vice-versa				
02(B)	(8)					

Q.37	7) —	is the process of rem	oval of	microorganisms from milk using centrifugal
	forc	e		
	A)	Bactofugation	B)	Chilling
	C)	Pasteurization	D)	Sterilization
Q.38	3)	create trouble	in dai	iry industry because of their resistance to
	past	eurization and sanitization proce		
	A)	Spore forming bacteria	B)	Virus
	C)	Mold	D)	Yeast
Q.39) Sca	arlet fever, a milk borne disease	is cause	ed by
	A)	Streptococcus agalactiae		
	B)	Streptococcus pyogenes		
	C)	Campylobacter jejuni		
	D)	Yesrsiniaenterocolyitica		
Q.40) Co	nsider the following statements:		
	1)	Even though the disease anthr disease of herbivores	ax affe	ects a wide variety of species, it is mainly a
	2)	Rinderpest was termed as "cattl as "goat plague'	le plagu	e'; Swine Fever as "Swine plague'; and PPR
	3)	FMD lesions are also seen on u	udder	
	4)	Shooting diarrhoea is a feature	ofswi	ne fever
	Whi	ch of the following statements i	s / are	correct
	A	a) 4 and 2	B)	1 and 2
	C) 1 only	D)	1, 2 and 4
02(B	3)		(9)	[P.T.O.

Q.41) Consider the following statements:

- 1) BQ is characterised by inflammation of skeletal and cardiac muscle and toxemia
- 2) Dry gas bloat is associated with excess intake of grains
- 3) The RP virus is antigenically related to the virus of CD and PPR
- 4) Fluid therapy is indicated in pulmonary edema

Which of the following statements is / are correct

A) 1 and 3

B) 2 only

C) 1 and 4

D) 2 and 4

Q.42) Consider the following statements:

- 1) PPR in goats is clinically and pathologically "distinguishable" from RP
- 2) Theophylline is indicated in pneumonia
- 3) Lush green pasture causes constipation
- 4) Improper and insufficient colostrum predisposes calves to colibacillosis

Which of the following statements is / are correct

A) 2 and 4

B) 1 and 2

C) 2 only

D) 4 only

Q.43) Consider the following statements:

1) Steroids

Indicated in Pneumonia

2) Primary bloat

- Caused by choke
- 3) Neonatal diarrhoea
- Dehydration and acid base imbalance

4) Sneezing

- non-defensive mechanism

Which of the above pairs are correctly matched?

A) 1 and 3

B) 2 and 4

C) 1 and 4

D) 3 and 4

Q.44) Con	nsider the following statements:		All contains an worker and contains 3.4 F. St.			
1)	The faeces containing the organi Jhone's disease	isms	serve as a primary source of infection for			
2)	Dry gas bloat is associated with e	exces	s intake of grains			
3)	Rinderpest virus is antigenically	'not 1	related' to PPR virus			
4)	· · · · · · · · · · · · · · · · · · ·					
	ich of the following statements is /					
A)	1 and 3	B)	2 only			
C)	1 and 4	D)	2 and 4			
Q.45) Th	ne presence of compromised immu	ne re	sponse may result in:			
1)	Leukocytosis					
2)	Infections developing in the firs	t 6we	eeks of life			
3)	Administration of attenuated vac	ccine	s leading to immunity			
4)	Repeated or continuous infection					
	hich of the following statements is					
	A) 2 and 4	B)	1 and 2			
	C) 2 only	D)	4 only			
	c) Zomy					
0.46) (Consider the following statements:					
1)		athol	ogically "distinguishable" from RP			
2)			ities have been attributed to exposure to swine			
3)	Though there are multiple strain, provided the control of the cont	ns of rotec	RP virus, immunity developed after infection its all other strains			
4)) FMD also occurs in horses					
V	Which of the following statements i	s / ar	e correct			
	A) 2 and 3	B)) 1 and 2			

D)

2 only

C)

4 only

Q.47) Consider the following st	tatements:
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- 1) Calf diphtheria is characterised by necrotic stomatitis, laryngitis and pharyngitis
- 2) Dry gas bloat is associated with excess intake of grains
- 3) The RP virus is antigenically "not related" to the PPR virus
- 4) Pathogenicity of M. Tuberculosis is due to its ability to escape killing by macrophages and induce delayed type hypersensitivity

Which of the following statements is / are correct

A) 1 and 3

B) 1 and 4

C) 1 only

D) 2 and 4

Q.48) Consider the following statements:

- 1) E.coli is the normal inhabitant of digestive tract of mammals and birds
- 2) In calf diphtheria, death is likely to occur from diarrhoea and dehydration
- 3) Anthrax spores are not formed until it has been exposed to air
- 4) BQ has a seasonal incidence with most cases in summer season

Which of the following statements is / are correct

A) 1 and 3

B) 2 only

C) 2 and 3

D) 1 and 4

Q.49) Consider the following statements:

1) Endotoxemia

Caused by Gram positive bacteria

2) Pneumonia

NSAIDS are indicated

3) Panters

- HS recovered animals
- 4) Blood transfusion

Indicated in Neonatal diarrhoea

Which of the above pairs are correctly matched?

A) 2 and 4

B) 4 only

C) 3 and 4

D) 1 and 4

(0.50)	Read	the	follo	wing	statements
6.00)				0	

- 1) Progeny testing is useful for sex limited traits
- 2) Polled condition in cattle, is an example for lack of dominance
- 3) Mutation produces new genes in the population
- 4) In tandem selection, more number of traits selected at one time

Which of the following statements is / are correct?

A) 1 and 3

B) 3 and 2

C) 1 and 4

D) 2 and 4

Q.51) Arrange the different sub stages of first meiotic prophase in chronological order of their chromosome behavior and appearance.

- 1) Pachynema
- 2) Leptonema
- 3) Diakinesis
- 4) Zygonema
- 5) Diplonema

Arrange the sub stages in chronological order

A) 1, 2, 3, 4, 5

B) 2, 4, 1, 5, 3

C) 1, 3, 5, 2, 4

D) 3, 5, 4, 2, 1

Q.52) Consider the following statements

- 1) For comparing variance, F test is used
- 2) Additive genetic variance is the result of interaction of genes
- 3) covariance of the parents is equal to inbreeding coefficient of the progeny
- 4) Breeding of two different breeds is crossbreeding

Which of the following statements is / are correct?

A) 1 and 3

B) 3 and 2

C) 3 and 4

D) 1 and 4

Q.53) Consider the following pairs

i) Biuret

1) Vegetable Protein source

ii) Broken rice

2) Sweetening agent

iii) Guar meal

3) Animal Protein source

iv) Molasses

- 4) Energy source
- 5) NPN compound

Which of the pairs given above is/are correctly matched?

- A) i-3, ii-5, iii-2, iv-5
- B) i-2, ii-1, iii-4, iv-3
- C) i-5, ii-4, iii-1, iv-2
- D) i-4, ii-3, iii-5, iv-1

Q.54) Fat is included in the diets of livestock during heat stress because

- 1) The heat of digestion of fat is less
- 2) The heat of nutrient metabolism is less
- 3) The calorific value of the fat is higher
- 4) Source of fat soluble vitamins

Which of the above statements is/are correct?

A) 3 and 4

B) 1, 2 and 4

C) 3, 1 and 4

D) 1, 2 and 3

Q.55) Consider the following pairs of the bacteria and their substrates in silage

- i) Lactobacillus plantarum
- 1) Triglycerides
- ii) Lactobacillus brevis
- 2) Amino acids
- iii) Clostridium butyricum
- 3) Starch
- iv) Clostridium sporogenes
- 4) Hemicellulose
- 5) Lactic acid

Which of the pairs given above is/are correctly matched?

- A) i-5, ii-3, iii-1, iv-4
- B) i-4, ii-5, iii-2, iv-1
- C) i-3, ii-4, iii-5, iv-2
- D) i-5, ii-4, iii-3, iv-1

Q.56) Arr	ange the following activities stepw	ise in	formulation of ration	n for dairy cattle				
1)	Calculate nutrient requirements of animal according to its production							
2)	Choose available feed ingredients							
3)	Manipulate each ingredient to match the supply and requirement of nutrientsKnow the nutrient content and inclusion levels of feed ingredients							
4)								
5)	Calculate the nutrients supplied by a set weight of feed ingredients							
A)	1, 2, 4, 5, 3	B)	2, 4, 1, 3, 5					
C)	1, 2, 5, 3, 4	D)	4, 2, 5, 1, 3					
Q.57) Syn	nchromate B is							
A)	ear implant							
B)	vaginal sponge							
D)								
C)	vaginal devic pass							
D)	cervical device							
	onsider the following statements want per day.			n of average yield per				
1)	No. of Days in milk							
2)	No. of days required for concept							
. 3)	Total lactation yield							
4)	No. of dry days			4) Fuen saint s				
Choose the incorrect answer from the following								
	A) 1 and 3	B)	1 and 4					
	C) Only 2	D)	3 and 4					
02(B)		(15))	[P.T.O.				

Q.59) Consider the	following statements

- 1) Milk after parturition up to 10 days is called as colostrum
- 2) Summer sterility is common in buffaloes
- 3) First faces of calf is known as meconium
- 4) Swaichal is famous gait of Ongole bullocks

Which of the following combination of statement is correct?

A) 2 and 3

B) 1, 2 and 4

C) 3 only

D) 1 and 2

Q.60) Arrange the following in descending order of their contribution to the milk production during the year 2018-19

- 1) Crossbred cows
- 2) Goats
- 3) Buffaloes
- 4) Indigenous cattle

Choose the correct answer from the codes given below

A) 3, 2, 1, 4

B) 3, 1, 4, 2

C) 1, 3, 2, 4

D) 2, 1, 3, 4

Q.61) Consider the following in terms of uses of off herd records

- 1) Efficiency of culling and selection for breeding purpose increases
- 2) Comparison of herd performance between/within breeds
- 3) Superior stock can be identified for extensive use in breeding programmes
- 4) Each animal in the herd is identified with respect to its production performance

Choose the correct answer from the codes given below

A) 1 and 4

B) 2 and 3

C) 3 and 4

D) 1 and 2

	1)	It will increase the incidence of o	estru	S
	2)	It will increase the early embryonic	ic mo	ortality
	3)	It will increase the conception rate	e in f	emale
	4)	It increases the chances of getting	twin	s and triplets
	Whi	ch of the above given statement(s)	is/are	e incorrect?
	A) 1, 3 and 4	B)	1 and 4
	C	3 and 4	D)	Only 2
,				
Q.63	3) Con	nsider the following statements con	cerne	ed with the Intercalving period
	1)	Service period plus gestation perio	od	
	2)	Dry period plus gestation period		
	3)	Service period plus lactation perio	od	
	4)	Dry period plus service period		
	Base	ed on those statements choose the c	orre	et answer
	A) 2	B)	1
	C	b) 3 — untrinsprend to the election of the ele	D)	4
Q.64	(i) The	e mechanism involved in the distress	s cau	sed due to CO ₂ ()
	1)	The formation of carbonic acid on	resp	iratory and ocular membrane
	2)	Feeling of breathlessness		
	3)	Direct stimulation of ion channels	with	in the amygdala associated fear responses
	4)	Direct action on voltage-sensitive		
	A		B)	2 & 3 only correct
	,		D)	1, 2, 3 & 4 are correct
	-,		6	•
00.7				
02(E	5)		(17)	[P.T.O.

Q.62) Consider the following statements with regard to flushing

1) Doping to win	itements about.	Acepromazine and choose the correct ()
2) Used for calming and	tranquilizing et	ffect
3) Act as agonist on dopa		
4) 2-HEP and 2-HEPS ar	re metabolites o	fAcepromazine
A) 1 & 2	B)	3 & 4
C) 1 & 3	D)	2 & 4
Q.66) Consider the following pai	rs	
i) Glanders	1)	Virus neutralization test
ii) Dourine	2)	Coggins test
iii) Equine infectious anae		Mallein test
iv) Equine viral arterities	4)	Complement Fixation test
Which of the pairs given abo	ove is/are corre	ctly matched?
A) i-3, ii-1, iii-2, iv-4		
B) i-3, ii-1, iii-4, iv-2		
C) i-3, ii-4, iii-2, iv-1		
D) i-3, ii-4, iii-1, iv-2		
Q.67) Consider the following stat		
1) Equines should come f	from a country	which is free from African horse sickness.
 Equines should come been reported during the 		where contagious equine metritis has not
		allowed for breeding purpose only.
		prrect importation of horses to India
A) 1 and 2	B)	2 and 3
C) 1 and 3	D)	1, 2 and 3
Q.68) Consider the following pair	s roomers	
	Calories	
i) Fat	9 Kcal	
ii) Protein	4 Kcal	Phase is the last of the last
iii) Lactose	9 Kcal	
iv) Fiber	3 Kcal	
Which of the above pairs are	correctly mate	hed?
A) i & ii	B)	ii & iii
C) iii & iv	D)	i & iv
02(B)	(18)	

Q.69) Cor	nsider the following statements		
1)	BHT is an antioxidant		
2)	Caustic soda is a cleansing ager	nt	
3)	Whey is rich in fat		
4)	CMC is an ice cream stabilizer		
Whi	ch of the following statement(s)	is/are	false?
A		B)	2 and 4
C	C) Only 3	D)	Only 4
Q.70) Imr	nune suppression is caused by the	e follov	wing infectious and non infectious conditions
1)	Marek's		
2)	New castle disease		i Na Grand state and a state of the C
3)	Infectious bursal disease		
4)	Fowl pox		F
5)	Mycoplasma Mycotoxins		
6) 7)	Chicken infectious anaemia		
8)	Avian leucosis		
	A) All are true except 4	B)	All are false except 3, 5, and 6
	C) All are true	D)	All are false
0.71) Co	nsider the following statements:		
			t water) can act as effective disinfectants for
1)			ver, they are not effective against spores.
2)	Caustic soda (2% solution) is e houses.	ffectiv	ve disinfectant for farm buildings and animal
3)	Caustic soda (5% solution) ca spores.	n be s	uccessfully used for destruction of anthrax
4)	Quick lime or Calcium oxide ca	ın be us	sed as a disinfectant and deodorant and can be
	sprinkled on manure or animal	discha	arges present on floors.
Wł	nich of the above statements are		
	A) 1, 2 and 3		1, 2 and 4
	c) 2, 3 and 4	D)	1, 2, 3 and 4
	2, 3 and T	D)	1, 2, 3 4114 1

Q.72) Co	nsider th	e folle	owing	pairs:
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i) Clostridium welchii present

Recent water contamination absent

and Coliform organisms

Coliform organisms

iii) Faecal streptococci

Gram negative

Ferment lactose at 37°C

iv) Iron bacteria

ii)

Crenothrix

Which of the pairs mentioned above are correctly matched?

A) i and iv

B) ii and iii

C) ii and iv

D) i, ii and iv

Q.73) Consider the following pairs for the effects on human health:

Impurity in water

Consequences if exceeds permissible limits

1) Nitrates

Methemoglobinemia

2) Fluorides

Mottled teeth

3) Lead

Giddiness and blindness

4) Mercury

Minamata Disease

Which of the pairs mentioned above is/are correctly matched?

A) 1 and 2

B) 1 and 4

C) 1, 2 and 3

D) 1, 2, 3 and 4

Q.74) Water if turbid:

- 1) It is due to presence of mineral or organic matter.
- 2) It indicates degree of pollution.
- 3) It interferes with disinfection process
- 4) It is not considered good for drinking purposes

Which of the above statements are true?

A) 1 and 2

B) 2 and 4

C) 1, 2 and 4

D) 1, 2, 3 and 4

	1)	hydatidosis in humans.	1 with	eggs of Echinococcusgranulosus can cause
	2)	Anthrax cannot be spread by air	borne	e route.
	3)	Droplet transmission of Mycobo	acteri	um bovis can cause tuberculosis in humans.
	4)	Inhalation of spores of <i>Bacillus</i> product can cause disease in hur		racis from contaminated soils or animal by-
	Wh	ich of the above mentioned staten	nents	are correct?
		A) 3 and 4	B)	1 and 2
		c) 1, 2 and 3 mail to graduate the		
Q	.76) Af	fect of pasteurization of colostrur	n at 6	0° C (140° F) for 60 min is
	A)	Reduce IgGconc	B)	Will not affect colostralIgG
	C)	Will not affect bacterial load	D)	Reduce fluid content
Q		hat percentage of growth was reconding as compared to the year 2012		in the recently concluded Livestock Census
	A)	3.63	B)	4.63
	C)	5.63	D)	6.63
Q.	78) Na	tional Sports Day in India is celeb		on which date?
	A)	29th August	B)	29th September
	C)	29th October	D)	29 th February
Q.	79) Wl	here are the Kalaroos caves		
	A)	Ganderbal	B)	Pulwama
	C)	Kupwara	D)	Srinagar
Q.	80) Th	e state bird of erstwhile state of Ja	mmu	and Kashmir is ?
	A)	Black winged crane	B)	Brown necked crane
	C)	Black necked crane	D)	Black legged crane
0.2	(D)		9,2	
$\mathbf{U}\mathbf{Z}$	(B)		(21)	IP.T.O.

Q.75) Consider the following statements:

A)	Isoprene	B)	Vinyl acetate
. C)	Propene	D)	Latex
Q.82) "Sh	neikh Chilli KaMaqbara" is situated	d in w	hich state?
Á)	Haryana	B)	Punjab
C)	Rajastan	D)	Uttar Pradesh
Q.83) WI	no is the first Lieutenant Governor	of Ur	nion Territory of Laddakh?
A)	Manoj Sinha	B)	G.C. Murmu
C)	Radha Krishna Mathur	D)	Sreenivas Kumar Sinha
Q.84) Sk	in of rabbit is called as		
A)	Pelt	B)	Fur
C)	Fryer	D)	Fibre
Q.85) Us	e of polished rice in human diet ca	auses	which of the following disease
A)	Beriberi	B)	Night blindness
C)	Goitre	D)	Colour Blindness
Q.86) Pr	ofessionally Dr. P.J. Kurian was		
A)	Veterinarian	B)	Medical Practitioner
C)	Dairy Technologist	D)	Engineer
Q.87) Th	ne first woman Chief Minister of Ir	ndia w	ras
A)	SuchetaKriplani	B)	Sarojini Naidu
C)	J. Jayalalitha	D)	Uma Bharti
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Q.81) Natural rubber is a polymer of

A)	Pencillin – Alexander Flemming	B)	Blood Group – K. Landsteiner
(C)	Antiseptic – Robert Koch	D)	Vaccine – Edward Jenner
	chlood to be given to the day of the		
Q.89) Fi	rst union territory of India to run 1	00%	on solar energy is
A)	Andaman Nicobar	B)	Diu
C)	Puducherry	D)	Chandigarh
	sched by septioners and these or red blood from the book self-took of the second		over a second for the exudation of tarry.
Q.90) Fo			ultural Research is celebrated every year on
A)	1st Nov	B)	16 th July
C)	18 th April	D)	30th April of gravelless of the control of the cont
O 04) TI	Off		
A September	ne earth rotates from		
A)	West to East	B)	East to West
C)	North to South	D)	South to North
			Kashmir valley, who was exiled to Bihar by
A)	Patlipura	B)	Munger
C)	Rajgir	D)	Biswak, Nalanda
			e (01) consider the following pairs:
Q.93) W	hich of the following species was f	irst do	omesticated by human beings?
A)	Cattle	B)	Sheep quong booking.
C)	Dog	D)	Goat
	Anti A antibodiesi in plasa:		е с Выстранци
Q.94) Na	ational Research Centre on Meat is	situa	ted in?
A)	Kolkata	B)	Chennai
C)	Hyderabad	D)	Thiruvananthapuram

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Q.88) Which one of the following pair is not correct-

	A)	Convection	B)	Radiation
	C)	Evaporation	D)	Conduction
Q.90		e dose (per kg body weight) of the e a calf that appears to be in shock a		le blood to be given intravenously, that car ated with neonatal diarrhoea is
	A)	20-30 ml	B)	5-10 ml
	C)	10-20 ml	D)	Not advised
Q.9'				terised by septicaemia and sudden death ared blood from the body orifices of carcass
	A)	John's disease	B)	Malignant carbuncle
	C)	PPR	D)	Swine fever
Q.98	8) Wh	nich of the following is a soil born	e infe	ction
	A)	FMD	B)	RP
	C)	PPR	D)	BQ
Q.99			ghly co	ontagious disease of goats and sheep caused
	A)	Anthrax	B)	PPR
	C)	Swine Fever	D)	Rinderpest
0.10	oo) w	which of the following causes hyr	er sed	cretion of fluid and electrolytes into smal
Q.1.	-			ological damage or invading tissue
	A)	Salmonella sps	B)	B. coli
	C)	E. coli	D)	Morbilli virus
0.10	01) C	onsider the following pairs:		
~	i)	B Blood group	1)	No anti A and Anti B antibodies in plasma
	ii)	A Blood group	2)	Anti B antibodies in plasma
	iii)	AB Blood group	3)	Anti A and Anti B antibodies in plasma
	iv)	O Blood group	4)	Anti A antibodies in plasma
	Whi	ch of the above pairs are correctly	matc	hed?
	A	i-2, ii-4, iii-1 iv-3	B)	i-1, ii-3, iii-2, iv-4
		i-4, ii-2, iii-1, iv-3	D)	i-3, ii-1, iii-4, iv-2

Q.95) Fastest mode of transfer of heat is

Q.102) Consider the following pairs:

Rail Tunnel

State/UT

- i) Borra Tunnel
- Andhra Pradesh
- ii) Karwar Tunnel
- Goa
- iii) Sangaldan Tunnel
- Jammu and Kashmir
- iv) Zhobo Tunnel
- West bengal

Which of the above pairs are correctly matched?

A) i & ii

B) i, ii & iv

C) ii & iv

D) i & iii

Q.103) Match the livestock and poultry breed as per the recognition by the National Bureau of Animal Genetic resources (Jan, 2020)

Species

No.of recognized breeds

- i) Cattle
- 1) 7
- ii) Sheep
- 2) 03
- iii) Horses & Ponies
- 3) 50
- iv) Ducks & Geese
- 4) 44

Select the correct answer using the code below

- A) i-2, ii-3, iii-1, iv-4
- B) i-3, ii-4, iii-1, iv-2
- C) i-1, ii-3, iii-2, iv-4
- D) i-2, ii-4, iii-1, iv-3

Q.104) Match the following goat breeds with their place of origin

Breed

Place of origin

i) Black Bengal

1) Gujarat

ii) Barbari

2) Rajasthan

iii) Surti

3) U.P.

iv) Sirohi

4) West Bengal

Select the correct answer using the code below

- A) i- 2, ii- 3, iii-1, iv -4
- B) i-3, ii-4, iii-1, iv-2
- C) i- 4, ii- 3, iii-1, iv -2
- D) i-2, ii-4, iii-1, iv-3

Q.105) Match the following bacteriological standards of raw milk for indication of clean milk production.

SPC/ml

- i) Not excessing 200, 000
- ii) Between 200, 000 to 1,000, 000
- iii) Between 1000, 000 to 5,000, 000
- iv) Over 5,000, 000

- Grade
- 1) Fair
- 2) Poor
- 3) Good
- 4) Very good

Select the correct answer using the code below

- A) i-4, ii -3, iii-1, iv-2
- B) i-2, ii-1, iii-4, iv-3
- C) i-4, ii -2, iii-3, iv-2
- D) i-3, ii-2, iii-3, iv-4

Q.106) Match the Newcastle Disease Virus Serotypes with their symptoms

Serotype

- i) Lentogenic
- ii) Viscerotropicvelogenic
- iii) Mesogenic
- iv) Velogenic neurotropic
 - A) i-3, ii-2, iii-1, iv-4
 - C) i-1, ii-3, iii-4, iv-2

Symptoms

- 1) Beaudetts form
- 2) Doyle's form
- 3) Hitcher's form
- 4) Beach's form
- B) i-2, ii-4, iii-3, iv-1
- D) i-4, ii-1, iii-2, iv-3

Milk fat consists of

Percentage Fatty acids

- i) 7
- ii) 15-20
- iii) 73-78
- iv) 32
 - A) i-1 ii-2 iii-3 iv-4
 - C) i-4 ii-3 iii-2 iv-1

- 1) Medium chain fatty acids
- 2) Short chain fatty acids
- 3) Long chain fatty acids
- 4) Mono saturated fatty acids
 - B) i-2 ii-1 iii-3 iv-4
 - D) i-3 ii-4 iii-1 iv-2

Q.108) Match the followings:

Total solids

Types of milk

i) 15

1) double toned

ii) 10.5

2) full cream milk

iii) 11.5

3) toned milk

iv) 13

- 4) standardized milk
- A) i-1 ii-2 iii-3 iv-4
- B) i-2 ii-1 iii-3 iv-4
- C) i-4 ii-3 iii-2 iv-1
- D) i-3 ii-4 iii-1 iv-2

Q.109) Match the followings:

Value

Cow ghee constant

i) 1.76

1) Iodine value

ii) 33.7

2) Polenske value

iii) 26.7

- 3) Butryorefractometer reading
- iv) 42.3
- 4) Reichert Meissl value
- A) i-1 ii-2 iii-3 iv-4
- B) i-2 ii-1 iii-1 iv-4
- C) i-2 ii-1 iii-4 iv-3
- D) i-3 ii-4 iii-1 iv-2

Q.110) Mode of Milk transportation in India

Mode

Optimum load (Kg)

- i) Head load
- 1) 15-25
- ii) Tonga
- 2) 250-300
- iii) Bicycle
- 3) 40 or more
- iv) Railway
- 4) 11 tonnes
- A) i-1 ii-2 iii-3 iv-4
- B) i-2 ii-1 iii-3 iv-4
- C) i-2 ii-3 iii-2 iv-1
- D) i-3 ii-4 iii-1 iv-2

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Q.111) Match the followings with respect to Milk Procurement

Season

- i) Flush
- Transitory to lean ii)
- iii) Lean
- iv) Transitory to Flush
 - i-1 ii-2 iii-3 iv-4
 - C) i-2 ii-3 iii-2 iv-1

Month

- 1) November to February
- 2) March and April
- 3) May to August
- 4) September and October
 - i-2 ii-1 iii-3 iv-4
 - D) i-3 ii-4 iii-1 iv-2

Q.112) Match the followings:

Bacteria

- Shigelladysenteriae i)
- Staph. Aureus ii)
- iii) Cl. Botulinum
- E. coli iv)
 - i-1 ii-2 iii-3 iv-4 A)
 - i-1 ii-3 iii-2 iv-1 C)

Disease

- Gas gangrene 1)
- Summer Diarrhea 2)
- 3) Shigellosis
- 4) Food poisoning
- i-2 ii-1 iii-3 iv-4 B)
- D) i-3 ii-4 iii-1 iv-2

Q.113) Match the followings:

Source

- Infection of milk directly from cow i)
- Infection from man to cow and then to milk ii)
- Direct contamination of milk by human being Indirect contamination of milk by human being iv)
 - i-1 ii-2 iii-3 iv-4 A)
 - i-1 ii-3 iii-2 iv-1 C)

- Disease
- Malta fever 1)
- 2) Diphtheria
- 3) Gastroenteritis
- Typhoid fever 4)
- i-2 ii-1 iii-3 iv-4 B)
- D) i-3 ii-4 iii-1 iv-2

Q.114) Match the following pairs:

- Yellow colour i)
- ii) Blue colour
- Red colour iii)
- Green colour iv)

- 1) Pseudomonas fluoroscens
- Pseudomonas synxantha 2)
- 3) Pseudomonas syncyanea
- 4) Rhodotorulaglutinis

Answers

- i-2, ii-1, iii-3, iv-4 A)
- C) i-2, ii-1, iii-4, iv-1
- B) i-3, ii-2, iii-1, iv-4
- i-3, ii-2, iii-3, iv-1 D)

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Q.115) Match the following pairs:

Name of the pathogen

- i) Streptococcus pyogenes
- ii) Salmonella typhi
- iii) Staph aureus
- iv) E.Coli
 - A) i-3, ii-1, iii-2, iv-4
 - C) i-3, ii-4, iii-2, iv-1

Test

- 1) Widal test
- 2) Eijkman test
- 3) Dick test
- 4) Thermonuclease test
- B) i-3, ii-1, iii-4, iv-2
- D) i-3, ii-1, iii-2, iv-4

Q.116) Find out the correctly matched pair/pairs

Dairy Detergents

Chemical name

i) Alkalis

Teepol

ii) Acid

- Sodium silicate
- iii) wetting agents
- Acinol N
- iv) Chelating Agents
- Tetraphosphate

A) i & ii

B) i

C) ii

D) iii & iv

Q.117) Arrange the following steps in the order for production of Recombined milk

- i) Receiving water and heat to 38-49°C
- ii) Addition of skim milk powder and butter oil
- iii) Pasteurization
- iv) Homogenization & Cooling
 - A) iii, iv, i, ii

B) i, ii, iii, iv

C) i, iii, ii, iv

D) ii, i, iv, iii

	i)	Evaporated milk & ste	erilized milk		
	ii)	Fermented milk			
	iii)	Paneer			
	iv)	Casein			
	A)	iii, iv, i, ii]	B)	i, ii, iv, iii
	C)	i, ii, iii, iv]	D)	ii, i, iv, iii
Q.119	9) Fir	nd out the correctly man	tched pair/pa	airs	
	Proc	cess	Temperatu	re/T	ime
	i)	HTST	72deg C/15	sec	
	ii)	LTLT	63deg C/30	min	nutes
	iii)	Sterilization	90deg C/15	Sec	
	iv)	UHT	100-118deg	g C/1	1-2 hrs
	A)) i & ii]	B)	iv
	C) iii]	D)	iii & iv
Q.12	0) Co	onsider the following st	tatements		
	i)	Cold enrichment			
	ii)	Abortions in cattle			
	iii)	Food poisoning in man	n		
	iv)	Thermophilic organism	m		
	Whi	ch of the following sta	tements is/a	re co	orrect in case of Listeria
	A) i, ii and iii	1 2 2 2 1	B)	ii, iii and iv
	C) i, iii and iv		D)	i, ii and iv

Q.118) Arrange the sequence from highest to lowest grade of milk used for manufacturing of