Domain Knowledge Test for recruitment of Assistant Professor in DUVASU, Mathura Subject: Veterinary Microbiology

Q. No. 1	Cata	alase positive and oxidase negative test is a character of		
	A	Streptococcus		
	В	Staphylococcus		
	C	Pasteurella		
	D	Pseudomonas		
Q. No. 2	CS1	pilus is associated with		
	A	Uro Pathogenic Escherichia coli (UPEC)		
	В	Entero Toxigenic Escherichia coli (ETEC)		
	C	Entero Haemorrhagic Escherichia coli (EHEC)		
	D	Salmonella spp.		
Q. No. 3	In M	Jultilocus Sequence Typing (MLST) method of molecular subtyping		
AS.	Α	16S rRNA gene is amplified		
P	В	23S rRNA gene is amplified		
15	C	Housekeeping gene is amplified		
15	D	Restriction digestion is done		
Q. No. 4	pXC	01 plas <mark>mid of <i>Bacillus anthracis</i> encodes for</mark>		
12	A	Capsule		
T-	В	Toxin		
4	C	Fimbriae		
TU	D	Pilus		
Q. No. 5	In M	In MRSA, penicillin-binding protein 2a (PBP2a) is encoded by gene		
· P	A	mecA		
0	В	pcbAB		
D.	C	pcbC		
0	D	penDE		
Q. No. 6	The	recommended turbidity of broth before using into Antibiotic Sensitivity		
	Test	is		
	A	0.5 McFarland standard		
	В	1.0 McFarland standard		
	C	1.5 McFarland standard		
	D	3.5 McFarland standard		
Q. No. 7	Whi	ch selective media is used in hybridoma technology		
	A	RPMI-1640 medium		
	В	Iscove's medium		
	C	EMEM medium		
	D	HAT medium		

Q. No. 8	The quality of a vaccine that confers solid protection to the host against any challenge (experimental or natural) by the pathogen is called		
	A Potency		
	B Efficacy		
	C Safety		
	D Sterility		
Q. No. 9	In addition to Macrophages and Dendritic cells, which cell is professional		
	antigen processing and presenting cell		
	A Neutrophils		
	B Basophils		
	B Basophils C B Cells D T Cells		
	D T Cells		
Q. No. 10	T helper type 2 (Th2) cells are a distinct lineage of CD4+ effector T cell that		
	secretes		
ASC.	A IL-4		
P	B IFN-γ		
15	C TNF-β		
18:	D IL-2		
Q. No. 11	Bacteria contains small acid soluble proteins (SASPs) in their		
1	A Cell wall		
1	B Middle lamella		
	C Biofilms		
70	D Endospores /		
Q. No. 12	Reverse vaccinology is an improvement on vaccinology that employs		
· P	bioinformatics and reverse pharmacology practices, and was first used against		
0	A Serogroup B meningococcus		
b.	B SARS-CoV-2		
0	C FMD		
3	D Porcine reproductive and respiratory syndrome virus (PRRSV)		
Q. No. 13	The member of order Mononegavirales replicate in cytoplasm except		
	A Paramyxoviridae		
	B Bornaviridae		
	C Rhabdoviridae		
	D Filoviridae		
Q. No. 14	HPAI is classified as which Biosafety level pathogen?		
	A Biosafety level -1		
	B Biosafety level -2		
	C Biosafety level -3		
	D Biosafety level -4		

Q. No. 15	What	t is the A260/A280 ratio for pure DNA	
	A	~1.8	
	В	~2.5	
	C	~1.0	
	D	~3.2	
Q. No. 16	Hydr	opericardiurn syndrome in chicken is caused by	
	A	Fowl adenovirus (FAV) serotype 1	
	В	Fowl adenovirus (FAV) serotype 2	
	C	Fowl adenovirus (FAV) serotype 3	
	D	Fowl adenovirus (FAV) serotype 4	
Q. No. 17	Rotavirus is classified into P serotypes and G serotypes on the basis of		
	A	VP4 and VP7 protein	
	В	VP1 and VP5 protein	
5	C	VP6 and VP9 protein	
200	D	VP2 and VP3 protein	
Q. No. 18		nost common cause o <mark>f contag</mark> ious bovine mastitis for the majority of dairy	
		s which o <mark>ften results in persistent subclin</mark> ical chronic infections is	
(E //	A	Streptococcus uberis	
5 11	В	Staphylococcus aureus	
U	C	Pseudomonas aeruginos <mark>a</mark>	
15	D	Klebsiella pneumoniae	
Q. No. 19		the Bacteriophage genome gets inserted into bacterial host it is termed as	
~	A	Transformation	
. 8	В	Lytic cycle	
	C	Transversion	
	D	Lysogenic cycle	
Q. No. 20		e DNA extraction by PCI method, isoamyl alcohol helps	
75	A	to protect genomic DNA during a catastrophe	
	В	in separating genomic DNA into a soluble phase	
	C	to denatures the protein portion of a cell	
O No 21	D	in reducing foaming between interphase	
Q. No. 21		nant cows commonly abort following IBR infection of:	
	A B	Respiratory form Eye form	
	Б С	Genital form	
	D	Digestive form	
Q. No. 22		lependent antigens evoke the synthesis of antibody of class	
Q. 140. 22	A	IgA	
	В	IgM	
	C	IgD	
	D	IgG	
	D	1 50	

Q. No. 23	Which of the following is changed by immunoglobulin class switching
	A the V region of L chain
	B the C region of L chain
	C the V region of H chain
	D the C region of H chain
Q. No. 24	Sequences of DNA that move (or jump) from one location in the genome to
	another is known as
	A Transposons
	B Oncogenes
	C Tumor suppressor genes
	D Proto-oncogenes
Q. No. 25	In India for control of Brucellosis, calf-hood vaccination is being practiced
	using live attenuated vaccine having strain
6	A S19
200	B RB51
P	C Rev. 1
130	D P52
Q. No. 26	Colored colonies produced by <i>Staphylococcus aureus</i> on Baird Parker Medium are
5 //	A Pink colored
15	B Yellow colored
F	C Black colored
die III	D Brown colored
Q. No. 27	Systemic and septicemic pasteurellosis in lambs of <2 months is mainly
9	caused by
· 6	A Mannheimia haemolytica (mainly A:2)
0	B Ma <mark>nn</mark> heimia h <mark>aemolyt</mark> ic <mark>a A:1 </mark>
D.	C Pasteurella multocida
O,	D Bibersteinia trehalosi
Q. No. 28	Pasteurella multocida, mainly type D, produce a toxin 'Pmt' which is a
	mitogen for
	A B-cells
	B Osteoblasts
	C T-cells
	D Macrophages
Q. No. 29	A phenomenon 'satellitism' is characteristics of
	A Pasteurella hemolytica
	B Actinobacillus lignieresii
	C E. coli
	D Haemophilus spp.

Q. No. 30	Bordetella bronchoseptica causes atrophic rhinitis in pigs often associated
	with a co-infection of
	A Pseudomonas aeruginosa
	B Clostridium perfringens
	C Pasteurella multocida
	D Streptococcus pneumoniae
Q. No. 31	What is the name of classification used for non-tuberculous mycobacteria?
	A Carl Linnaeus classification
	B Kauffmann and White classification
	C Lancefield classification
	D Runyon classification
Q. No. 32	Growth of which of the following bacteria is not inhibited by Digitonin
	A Acholeplasma
6	B Anaeroplasma
200	C Mycoplasma (
100	D Ureaplasma
Q. No. 33	In semisolid media growth concentrated in a disc called a dinger zone-about
E /	0.5 cm below the surface is characteristics of
5 //	A Listeria spp.
10	B Leptospira spp.
T	C Actinobacillus spp.
On T	D Haemophilus spp.
Q. No. 34	Compylobacter fetus sub species fetus contains various serovars based on
2	A Capsular antigen
- 12	B Heat labile surface antigens
2	C Heat stable surface antigens
P.	D H-flagellar antigen
Q. No. 35	Monoclonal antibodies mimicking activity of enzyme are called as
	A Abzymes B Ribozymes
	2 The objection
	C Wabzynes
	D Pepzymes
Q. No. 36	Diptheria toxoid is example of
	A Inactivated endotoxin
	B Inactivated exotoxin
	C Conjugated endotoxin
	D Killed bacterial vaccine
Q. No. 37	The rapid alternative version of SRID (Single Radial Immunodiffusion) test is
	A Counter current immunoelectrophoresis
	B Rocket Immunoelectrophoresis
	C Agar gel Immunodiffusion test
	D Polyacryamide gel Electrophoresis

Q. No. 38	Footrot in sheep is caused by the coexistence of two Gram-negative, anaerobi		
	bacteria, Fusobacterium necrophorum and		
	A Clostridium chauvoei		
	B Actinomyces bovis		
	C Dichelobacter nodosus		
	D Prevotella spp.		
Q. No. 39	Production of spindle or fusiform shaped macroconidia is distinguishing		
	feature of		
	A Microsporum spp.		
	B Trichophyton spp.		
	C Epidermophyton spp.		
	D Trichosporon spp.		
Q. No. 40	In Clostridoum perfringens type D, pulpy kidney disease in older lambs occur		
4	due to secretion of a toxin known as		
ACC.	A beta toxin		
P	B epsiolon toxin		
100	C iota toxin		
18	D alpha toxin		
Q. No. 41	Histoplasma capulatum is a facultative intracellular fungus that binds to		
15	CD11/CD18 receptors on		
T III	A Macrophages Macr		
CATE III	B TH-cell		
10	C Eosinophils /		
9 11	D B-cells		
Q. No. 42	Which of the following is not the property of chicken anemia virus infection?		
2	A Bone marrow aplasia		
Pr.	B Sub-cutaneous haemorrhages		
0	C Severe loss of egg production		
	D Atrophied thymus and bursa		
Q. No. 43	Which of the following statement is wrong about Prions?		
	A They are very resistant to many environmental insults and chemicals		
	B They evoke no inflammatory or immune response in their host		
	C They produce slow but fatal neurodegenerative disease in their hosts		
	D They have more α -helical structure than their normal cellular counterpart		
Q. No. 44	Ochratoxins are produced by several species of		
	A Aspergillus and Penicillium		
	B Mucror and Rhizopus		
	C Alternaria and Absidia		
	D Cryptococcus neoformans		

	simi	ilarities in
	A	23S rRNA
	В	16S rRNA
	C	70S rRNA
	D	5S rRNA
Q. No. 46	Mos	st common selective media used for isolation of Bacillus anthracis is
	A	PLET agar
	В	EMJH medium
	C	MSA
	D	MSA Edward's medium ine farcy is caused by
Q. No. 47	Bov	ine farcy is caused by
	A	Mycobacterium farcinogenes and Mycobacterium senegalense
	В	Histoplasma species and Blastomyces species
,cc	C	Burkholderia mallei <mark>a</mark> nd <mark>Burk</mark> holderia pseudomallei
P	D	Brucella abortus and <mark>Actinom</mark> yces bovis
Q. No. 48	Vac	cine virus strain used in India under mass PPR vaccination campaigns is
E /	A	Sungri/96 strain
	В	Doyle's strain
15	C	Neethling strain
E	D	Romanian strain
Q. No. 49	The	concentration of RNA can be determined by measuring the absorbance at
0	260	nm (A260) in a spectrophotometer and an absorbance of 1 unit at 260 nm
	corr	responds to
· B	A	10 μg/ml RNA
0	В	20 μg/ml RNA
b.	C	30 μg/ml RNA
0	D	40 μg/ml RNA
Q. No. 50	J5 s	train is used as a vaccine strain to induce protective immune response in
	mas	titis caused by
	A	Escherichia coli
	В	Staphylococcus aureus
	C	Streptococcus uberis
	D	Streptococcus pyogenes
Q. No. 51	For	optimum preservation of bacterial cultures for longer duration in
	glycerolated broth culture, 0.5 ml broth culture of bacteria is mixed with 0.5	
	ml o	of
	A	30% glycerol
	В	10% glycerol
	C	90% glycerol
	D	50% glycerol

Members of Anaplasmataceae have been have been classified based on the

Q. No. 45

- Q. No. 52 HEPES is added to the culture medium at the start of the cell culture process. Its main role is
 - A to give nutrition to growing cells
 - B help in fast replication of the cells
 - C to maintain temperature during replication of cells
 - D to maintain the pH level of the culture medium as carbon dioxide accumulates because of the respiration of the cells
- Q. No. 53 Tumor suppressor protein which blocks the progression of the cell cycle at G1 phase is
 - A p53
 - B Caspase 2
 - C ErbA
 - D AP-1
- Q. No. 54 ELISA test used to differentiate between vaccinated and infected animals; particularly to support FMD control programme in area that are endemic for FMD is
 - A LPB-ELISA
 - B Indirect ELISA (iELISA)
 - C Competitive ELISA
 - D NSP-ELISA
- Q. No. 55 A vector that can replicate in more than one host organisms or two different cell types (e.g. a prokaryotic cell and a eukaryotic cell) is called as
 - A Expression vector
 - B Secretion vector
 - C Shuttle vector
 - D Cloning vector
- Q. No. 56 Genome of viriods is made up of
 - A ssRNA
 - B dsRNA
 - C ssDNA
 - D dsDNA
- Q. No. 57 Which of the following is not true in rate-zonal technique of centrifugation?
 - A Subcellular organelles, which have different densities but are similar in size separate efficiently.
 - B Separation of proteins of similar densities and differing only 3 folds in relative molecular mass can be achieved easily.
 - C The technique is employed for the separation of enzymes, RNA-DNA hybrids, ribosomal subunit, subcellular organelle, etc.
 - D The highest density of preformed liquid density gradient, should not exceed that of densest particle to be separated.

	A	Budding through intracytoplasmic membranes
	В	Budding through plasma membranes
	C	Budding through nuclear membrane
	D	cell lysis
Q. No. 59	Ethi	dium bromide (EtBr) used in PAGE at a final concentration of
	A	approximately 0.2-0.5 ng/mL
	В	approximately 0.2-0.5 mg/mL
	C	approximately 0.2-0.5 pg/mL
	D	approximately 0.2-0.5 μg/mL
Q. No. 60	Lun	npy skin disease (LSD) is an infectious disease in cattle caused by a virus of
		family <i>Poxviridae</i> also known as
	A	Nigerian 75/1
	В	Diallo
, si	C	Arasur 87
P	D	Neethling virus
Q. No. 61	The	double stranded DNA (8Kb) which is covalently closed circular,
15		ercoiled, associated with histones, and is infectious in case of
E	A	Papillomavirus
12	В	Polyomavirus
T.	C	Circovirus Adenovirus cefield classification of streptococci is based on
	D	Adenovirus
Q. No. 62	Lan	<mark>ce</mark> field classific <mark>at</mark> ion of st <mark>re</mark> ptococci is ba <mark>s</mark> ed on
0	A	M and T antigens
· P	В	M, T, R antigens
0	C	C substances/ antigens
D.	D	M antigen
Q. No. 63	Nag	ler's reaction with <i>Clostr<mark>id</mark>ium perfringens</i> on egg yolk agar is due to
× ×	Α	Haemolysin
	В	Mucin
	C	Toxin
	D	Lecithinase
Q. No. 64	Stre	ptococcus pneumoniae can be differentiated from all other a-haemolytic
	strej	ptococci by
	A	Growth characteristics on blood agar
	В	Morphology
	C	digitonin sensitivity test
	D	Bile solubility test

Rabies virions are released from affected cell by

Q. No. 58

Q. No. 65	The members of order Mononegavirales replicate in cytoplasm except
	A Paramyxoviridae
	B Bornaviridae
	C Rhabdoviridae
	D Filoviridae
Q. No. 66	International Centre for FMD (ICFMD) with BSL3 containment facility is
	present at
	A New Delhi
	B Hyderabad
	C Bhubaneswar
	D Mukteshwar
Q. No. 67	Which of the following is most effective method for disinfection of prions
	A UV light irradiation
	B Treatment with Formalin
acci	C Treatment with alcohol
100	D 2N NaOH treatment
Q. No. 68	The order of decreasing case fatality rate by Alphaviruses in horses is
15	A EEE> WEE > VEE (epizootic)
E	B EEE> VEE (epizootic) > WEE
12	C VEE (epizootic)> WEE > EEE
U	D VEE (epizootic)> EEE > WEE
Q. No. 69	Escherichia coli commonly causing infection in pigs have fimbrial antigen
STO I	A K99
0	B K88
· P	C K77
0	D K66
Q. No. 70	Major structural protein of infectious bursal disease virus (IBDV) which elicits
0	neutralizing antibody is
1	A VP4
	B VP3
	C VP2
	D VP1
Q. No. 71	Rolling disease of mice is caused by
C ******	A Mycoplasma synoviae
	B Mycoplasma agalactiae
	C Mycoplasma pneumoniae
	D Mycoplasma neurolyticum
Q. No. 72	The Weil-Felix test is an agglutination reaction between
. –	A Antibody against <i>Rickettsia</i> and antigen from <i>Pseudomonas</i>
	B Antibody against <i>Rickettsia</i> and antigen from <i>Staphylococcus</i>
	C Antibody against <i>Rickettsia</i> and antigen from <i>Brucella</i>
	D Antibody against <i>Rickettsia</i> and antigen from <i>Proteus</i>

Q. No. 73	Zebra markings/ stripes of congestion on mucosal folds of large intestine		
	(posterior colon) of sheep is pathognomonic lesion in		
	A PPR		
	B Sheep pox		
	C Bluetongue		
	D Enterotoxaemia		
Q. No. 74	Avian infectious bronchitis virus (IBV) have many antigenic variant strains		
	which are classified based on changes in their		
	A S1-protein genes		
	B M1-protein genes		
	C VP1-protein genes		
	D S2-protein genes		
Q. No. 75	Misshapening of the eggs in chickens is caused by the infection of following		
4	agents except		
,cc	A Infectious bronchitis virus		
D.	B Egg drop syndrome (EDS) virus		
15	C Newcastle disease virus		
18 1	D Ornithobacterium rhinotracheale		
Q. No. 76	Non motile <i>Clostridium</i> spp. is		
RE III	A Clostridium septicum		
12	B Clostridium botulinum		
4	C Clostridium perfringens		
90	D Clostridium tetani		
Q. No. 77	IMViC pattern of <i>Escherichia coli</i> is		
· [5]	A ++		
0	B +-+-		
D	C++		
0	D +-++		
Q. No. 78	Coggins test is used for diagnosis of		
	A Classical swine fever		
	B African swine fever		
	C Equine viral arteritis		
	D Equine infectious anaemia		
Q. No. 79	Which of the following virus has icosahedral symmetry		
Q. 11(01/1)	A Orthomyxovirus		
	B Adenovirus		
	C Rhabdovirus		
	D TMV		
	D 1141 A		

Q. No. 80	The virus previously referred to as BoHV-1.3, a neuropathogenic agent, is		
	now classified as		
	A BoHV-5		
	B BoHV-1.1		
	C BoHV-1.2a		
	D BoHV-1.2b		
Q. No. 81	In SDS PAGE beta mercaptoethanol is used		
	A as preservative that chelates divalent cations		
	B to help in keeping the proteins linear		
	C to stabilize and activate certain enzymes		
	D to break all the disulfide bonds and denature the protein of interest		
Q. No. 82	A modified form of conventional PCR that reduces the presence of undesired		
	products and primer-dimers due to non-specific DNA amplification at room		
4	(or colder) temperatures		
eð.	A Long-range PCR		
P	B Multiplex PCR		
120	C Hot start PCR		
TE M	D Fast-cycling PCR		
Q. No. 83	Which of the following statement is true for MHC class I molecules		
	A Peptide binding groove is open at both ends		
10	B Peptide binding groove is open at amino terminal ends		
4	C Peptide binding groove is closed at both ends		
40	D Peptide binding groove is open at carboxyl terminal ends		
Q. No. 84	ssRNA is the natural ligand for mouse		
· P	A TLR1		
0	B TLR3		
Dr.	C TLR4		
0	D TLR7		
Q. No. 85	Which of the following technique/ tool is used to measure antibody affinity for		
	an antigen		
	A Surface Plasmon Resonance (SPR)		
	B Dot-blot		
	C Western blotting		
	D Lateral flow		
Q. No. 86	Which of the following antigen presenting cell is related to adaptive immunity		
•	A Macrophages		
	B Dendritic cells		
	C Microglial cells		
	D B-Cells		

Q. No. 87	Cell free viruses in Marek's disease are found predominantly in		
	A	Nerve cells	
	В	Epithelial cells	
	C	Lymphoblastoid cells	
	D	Feather follicles	
Q. No. 88	Wh	ich of the following will be designated as notifiable avian influenza?	
	A	Any avian influenza virus having IVPI > 1.2	
	В	Non-H5/H7 avian influenza virus having IVPI <1.2	
	C	Any non-H5/H7 avian influenza virus subtypes	
	D	Any non-H5/H7 avian influenza virus having 10% mortality in IVPI	
Q. No. 89	Wh	ich of the following is not the property of <i>Rotavirus</i>	
	A	Non-enveloped	
	В	10 segments of ds RNA	
	C	Stable at pH 3.0	
, Si	D	Triple layered capsid / /	
Q. No. 90	Wh	ich of the following fa <mark>milie</mark> s <mark>co</mark> ntain enveloped viruses	
15	A	Astroviridae Astroviridae	
15	В	Picorn <mark>aviridae</mark>	
E	C	Rhabdoviridae	
	D	Polyomaviridae	
Q. No. 91	The	e following antibiotics act on bacteria by damaging cell membrane except	
	A	Tetracycline Tetracycline	
70	В	Gramicidins	
0	C	Polymyxins	
· P	D	Tyrocidins	
Q. No. 92	Wh	ich of the following <i>Actinobacillus</i> spp. is non-haemolytic on sheep blood	
D.	aga	7 ·	
07	A	Actinobacillus capsulatus	
	В	Actinobacillus pleuropneumoniae	
	C	Actinobacillus suis	
	D	Actinobacillus ureae	
Q. No. 93	Mai	nnheimia hemolytica produces a toxin, that is important in the pathogenesis	
	of d	lisease associated with it, is known as	
	A	Enterotoxin	
	В	Leukotoxin	
	C	Neurotoxin	
	D	Exfoliative toxin	

Q. No. 94	Inoculation of which of the following virus in chicken egg embryo by yolk sac				
	route reveals characteristic 'cherry red discoloration' and death of the chicken embryo?				
	A Bluetongue virus (BTV)				
	B PPR virus				
	C BVD virus				
	D Malignant Catarrhal Fever virus				
Q. No. 95	Swine vesicular disease is caused by				
Q. 110. 75	A Aphthovirus				
	B CardiovirusC HepatovirusD Enterovirus				
	D Enterovirus				
Q. No. 96	Much of the success of Salmonella in causing infection is attributed to which				
	type of bacterial secretion system expressed at different times during the				
,e3	infection?				
D	A Type I (T1SS)				
15	B Type II (T2SS)				
18	C Type III (T3SS)				
E	D Type IV (T4SS)				
Q. No. 97	Which of the following laboratory animal is highly fatal to Canine Distemper				
F	Virus?				
4	A Guinea pig				
40	B Ferret				
0 1	C Mice				
·P	D Monkey				
Q. No. 98	Which of the following Toll Like Receptor (TLR) is been found localized within				
POK	the endosomes and not present on cell surface in humans?				
	A TLR3				
	B TLR4				
	C TLR5				
	D TLR6				
Q. No. 99	The Bacterial Ghost (BG) platform technology is an innovative system for				
	vaccine production as BG can act as vehicles for antigen delivery. BG				
	are empty cell envelopes of				
	A Gram-negative bacteria				
	B Gram-positive bacteria				

C

D

Acid-fast bacteria

Partially acid fast bacteria

Q. No. 100	If vector expressed antigenic protein is used as a vaccine, it can be referred to			
	as			
	A DNA vaccine			
	B Recombinant subunit vaccine			
	C Attenuated vaccine			
	D Conjugate vaccine			
Q. No. 101	Yersinia enterocolitica produces a chromosomally encoded enterotoxin (Yst)			
	with similar activity to the ST toxin secreted by			
	A E. coli			
	B Klebsiella spp.			
	C Pseudomonas aeruginosa			
	D Proteus spp.			
Q. No. 102	Spontaneous generation theory was finally disproved by the work of			
4	A Louis Pasteur			
,co	B Robert Koch			
P	C Edward Jenner			
15	D Antonie van Leeuwenhoek			
Q. No. 103	The lipid A components of lipopolysaccharide of Gram negative bacteria is also			
	called as			
Fig.	A Lipoprotein			
F	B OMP			
die III	C Endotoxin			
70	D Mycolic acid			
Q. No. 104	Which of the following is not true about FceRI?			
·P	A It has role in degranulation			
0	B It has role in phagocytosis			
b.	C It is low affinity receptor			
0,	D It is high affinity receptor			
Q. No. 105	Which of the following is a both T-cell and B-cell mitogen?			
	A ConA			
	B PHA			
	C Pokeweed Mitogen (PWM)			
	D Wheat germ agglutinin			
Q. No. 106	Louping ill virus belongs to which of the following family?			
	A Togaviridae			
	B Arteriviridae			
	C Flaviviridae			
	D Astroviridae			

Q. No. 107	COFAL test is used for the diagnosis of				
	A	Marek's disease			
	В	Fowl Pox			
	C	Avian Leukosis			
	D	Infectious Bronchitis			
Q. No. 108	The strain of virus used in vaccine for infectious canine hepatitis is				
	A	CAV-1			
	В	CAV-2			
	C	CAV-3			
	D	CAV-4			
Q. No. 109	E. co	oli O157:H7 non-hemorrhagic strains are converted to hemorrhagic			
	strai	ns			
	A	by lysogenic conversion after bacteriophage infection of non-hemorrhagic			
4	100	cells			
روع	В	by lytic conversion after bacteriophage infection of non-hemorrhagic cells			
P	C	by point mutation			
15	D	by frame shift mutation			
Q. No 110	For	lympho <mark>cyte proliferation assay, lympho</mark> cytes from whole blood can be			
F //	separated by isopycnic centrifugation on linear Ficoll-Isopaque gradients with				
15	a density ranging from				
F	A	1.055 to 1.095 g/mL			
die III	В	2.055 to 2.095 g/mL			
10	C	1.555 to 1.995 g/mL			
9	D	0.055 to 0.095 g/mL			
Q. No. 111	Salm	conella spp. produce hydrogen sulfide, which can readily be detected by			
0	grow	ving them on media containing			
Dr.	A	Ammonium sulfate			
O,	В	Sodium lauryl sulfate			
	C	Hydrogen sulfate			
	D	Ferrous sulfate			
Q. No. 112		ch of the following is NOT involved in the interaction of TCR with peptide			
	MH	C complex?			
	A	Hydrogen bond			
	В	Electrostatic bond			
	C	Covalent bond			
	D	Hydrophobic bond			
Q. No. 113		m Sickness is an example of which type of Hypersensitivity reaction?			
	A	Type I Hypersensitivity			
	В	Type II Hypersensitivity			
	C	Type III Hypersensitivity			
	D	Type IV Hypersensitivity			

Q. No. 114	Lateral transduction is the process by which very long fragments of bacterial
	DNA are transferred to another bacterium. So far, this form of transduction
	has been only described in
	A Streptococcus spp.
	B Salmonella typhimurium
	C E. coli
	D Staphylococcus aureus
Q. No. 115	Which of the bacterial efflux transporters superfamily are primary
	transporters, the rest being secondary transporters?
	A The major facilitator superfamily (MFS)
	B The ATP-binding cassette superfamily (ABC)
	C The small multidrug resistance family (SMR)
	D The resistance-nodulation-cell division superfamily (RND)
Q. No. 116	Intranuclear eosinophilic Torres bodies are found in which of the following
Q.110.110	disease?
P	A Yellow fever
15	B Orf
15	C Bovine ephemeral fever
E	D Visna/Maedi
Q. No. 117	The virus having complex symmetry is
Q. 110. 117	A Herpesvirus
4	B Parvovirus
40	C Poxvirus
0	D Arenavirus
O No 110	
Q. No. 118	FMD vaccine currently being used for disease control under National Animal
D.O.	Disease Control Programme (NADCP) in India lacks one of the following
	serotypes
1	A A
	C Asia 1
	D C
Q. No. 119	A class of gene activators that increase the efficiency of transcription of viral
	or cellular genes is known as
	A Promoters
	B Enhancers
	C Silencer
	D Regulators

Q. No. 120 ESKAPE is an acronym comprising the scientific names of six highly virulent and antibiotic resistant bacterial pathogens including

- A Enterococcus faecium, Staphylococcus aureus, Klebsiella pneumoniae, Acinetobacter baumannii, Pseudomonas aeruginosa, and Enterobacter spp.
- B Enterococcus faecium, Streptococcus uberis, Klebsiella pneumoniae, Acinetobacter baumannii, Pseudomonas aeruginosa, and Enterobacter spp.
- C Enterococcus faecium, Staphylococcus aureus, Klebsiella pneumoniae, Acinetobacter baumannii, Pasteurella multocida, and Enterobacter spp.
- D Enterococcus faecium, Staphylococcus aureus, Klebsiella pneumoniae, Aeromonas spp., Pseudomonas aeruginosa, and Enterobacter spp.



Key: Veterinary Microbiology

Question No.	Answer	Question No.	Answer	Question No.	Answer
1	В	41	A	81	D
2	В	42	С	82	С
3	С	43	D	83	С
4	В	44	A	84	D
5	A	45	В	85	A
6	A	46	A	86	D
7	D	47	A	87	D
8	В	48	A	88	A
9	C	49	D	89	В
10	A	50	A	90	С
11	D	51	A	91	A
12	A	52	D	92	A
13	В	53	A	93	В
14	С	54	// D	94	A
15	A	55	С	95	D
16	D	56	A	96	С
17	A	57	A	97	В
18	В	58	В	98	A
19	D	59	D	99	A
20	D A	60	D	100	В
21	A	61	A	101	A
22	В	62	С	102	A
23	D	63	D	103	C
24	A	64	D	104	С
25	A	65	В	105	C
26	C	66	C	106	C
27	D	67	D	107	C
28	В	68	В	108	В
29	D	69	В	109	A
30	C	70	C	110	A
31	D	71	D	111	D
32	A	72	D	112	C
33	В	73	A	113	C
34	C	74	A	114	D
35	A	75	С	115	В
36	В	76	С	116	A
37	В	77	A	117	C
38	С	78	D	118	D
39	A	79	В	119	В
40	В	80	A	120	A