D					
Register		1 3	3		5
Number					14

# 2019 M.D. MICROBIOLOGY (PG Degree Std.)

Time Allowed: 3 Hours]

[Maximum Marks: 300

Read the following instructions carefully before you begin to answer the questions.

#### IMPORTANT INSTRUCTIONS

- The applicant will be supplied with Question Booklet 15 minutes before commencement of the examination.
- 2. This Question Booklet contains 200 questions. Prior to attempting to answer, the candidates are requested to check whether all the questions are there in series and ensure there are no blank pages in the question booklet. In case any defect in the Question Paper is noticed, it shall be reported to the Invigilator within first 10 minutes and get it replaced with a complete Question Booklet. If any defect is noticed in the Question Booklet after the commencement of examination, it will not be replaced.
- 3. Answer all questions. All questions carry equal marks.
- 4. You must write your Register Number in the space provided on the top right side of this page. Do not write anything else on the Question Booklet.
- 5. An answer sheet will be supplied to you, separately by the Room Invigilator to mark the answers.
- 6. You will also encode your Question Booklet Number with Blue or Black ink Ball point pen in the space provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, action will be taken as per Commission's notification.
- 7. Each question comprises four responses (A), (B), (C) and (D). You are to select ONLY ONE correct response and mark in your Answer Sheet. In case you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each question. Your total marks will depend on the number of correct responses marked by you in the Answer Sheet.
- 8. In the Answer Sheet there are four circles (A), (B), (C) and (D) against each question. To answer the questions you are to mark with Blue or Black ink Ball point pen ONLY ONE circle of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong. e.g. If for any item, (B) is the correct answer, you have to mark as follows:

- 9. You should not remove or tear off any sheet from this Question Booklet. You are not allowed to take this Question Booklet and the Answer Sheet out of the Examination Hall during the time of examination. After the examination is concluded, you must hand over your Answer Sheet to the Invigilator. You are allowed to take the Question Booklet with you only after the Examination is over.
- 10. Do not make any marking in the question booklet except in the sheet before the last page of the question booklet, which can be used for rough work. This should be strictly adhered.
- 11. Applicants have to write and shade the total number of answer fields left blank on the boxes provided at side 2 of OMR Answer Sheet. An extra time of 5 minutes will be given to specify the number of answer fields left blank.
- 12. Failure to comply with any of the above instructions will render you liable to such action or penalty as the Commission may decide at their discretion.

SEAL

**DJMB/19** 

1.	The s	side chain theory of antibody production	n was	proposed by
	1	Paul Ehrlich	(B)	Elie Metchnikoff
	(C)	John Hunter	(D)	Edward Jenner
2.		——— has a good sterilisation effect	on co	mmon antibiotic resistant bacteria such a
	MRS	SA, VRE and Clostridium difficile.		
	(A)	Glutenaldehyde	(B)	Orthophthaldehyde
Y .	10	Peracetic acid	(D)	Hypochlorous acid
3.	The	biological control for testing dry heat ef	ficacy	are spores of nontoxigenic
	(A)	Bacillus pumilis		
	S	Clostridium tetani		
	(C)	Bacillus stearothermophilus		
	(D)	Clostridium botulivium		
4.	The	biological control for moist heat steriliz	ation	are spores of
	(A)	Bacillus pumilis	(B)	Bacillus subtilis
	6	Bacillus stearothermophilus	(D)	Bacillus globigi
5.	The	concentration of sodium hypochlorite so	olutio	n used to disinfect discard jars is
153	(A)		(B)	
	6	2.5%	(D)	10%
	,			The same of the sa
6.	Whi	ch of the following microorganism posse	ess me	etachromatic granules?
0.	(A)	Bacillus Anthracis	, ,	
	(B)	Bordetella Pertussis		
	(B)	Gardnerella Vaginalis		
	(D)	Proteus Mirabilis		
	(D)	1 Toteds Milabilis		

7.	Gran	n negative bacilli may be c	ultured using		
100	1	MacConkéy's medium			
	(B)	Blood agar media			
	(C)	Bile salt agar media			
	(D)	Nutrient agar media			
8.	Whic	ch of the following test dete	ects the production	n of acetoin?	
	(A)	MR test	A	VP test	
	(C)	Indole test	(D)	Citrate test	
9.	Tran	sfer of genetic information	through free or na	aked DNA is called	
	(A)	Conjugation			
	<b>B</b> )	Transformation			
	(C)	Transduction			
	(D)	Lysogenic conversion			
10.	Whic	ch of the following is a nons	sense codon?		
7	A)	UAA	(B)	AAG	
	(C)	GAU	(D)	CGA	
11.	The I	HLA allele associated with	good Pastuer's sy	ndrome is	
	1	DR-2	(B)	DR-3	
	(C)	DR-4	(D)	DR-3/DR-4	

Whic	h of the following HLA types is associa	ated wi	th rheumatoid arthritis?
(A)	HLA-B27	<b>(B)</b>	HLA-DR4
(C)	HLA-A1	(D)	HLA-DP
Whic	ch of the following HLA types is associa	ated wi	th Ankylosing spondytitis?
JA)	HLA-B27	(B)	HLA-DR4
(C)	HLA-DD	(D)	HLA-A1
-			
All tl	he following are examples of T-cell sub	popula	ation except
(A)	Plasma cells	(B)	TH1 cell
(C)	CD <sub>4</sub> T helper cell	(D)	Cytotoxic Tlymphocyte
The a	animal used for monoclonal antibodies	produ	ction is
-4)	mouse	(B)	guinea pig
(C)	rabbit	(D)	rat
		546 1	
Phac	o anaphylaxis is caused by		
(A)	Autoimmune response to uvea		
(B)	Autoimmune response to retinal tiss	sue	
(C)	Autoimmune response to iris		
S)	Autoimmune response to lens protei	n	
		•	
The	technique used for monoclonal antibod	lies pro	oduction is called
1	Hybridoma	(B)	Rosette formation
(C)	Opsonisation	(D)	Immunofluorescence
The	following human diseases are associat	ed witl	h super antigens except
(A)	Tuberculosis	(B)	AIDS
(C)	Rabies	(D)	Dengue
	(A) (C)  Which (C)  All th (A) (C)  The: (A) (B) (C)  The: (A) (C)  The: (A)	(A) HLA-B27 (C) HLA-A1  Which of the following HLA types is associated that the following are examples of T-cell subsequence of T-ce	Which of the following HLA types is associated with HLA-B27 (B)  (C) HLA-DD (D)  All the following are examples of T-cell sub popularity (B)  (C) CD <sub>4</sub> T helper cell (D)  The animal used for monoclonal antibodies productly (D)  The animal used for monoclonal antibodies productly (D)  Phaco anaphylaxis is caused by  (A) Autoimmune response to uvea  (B) Autoimmune response to retinal tissue  (C) Autoimmune response to iris  Autoimmune response to lens protein  The technique used for monoclonal antibodies procupation  The technique used for monoclonal antibodies procupation  The technique used for monoclonal antibodies procupation  The following human diseases are associated with (A) Tuberculosis (B)

19.	Whie	ch of the following Immunoglobu	lins is heat la	abile?		
	· (A)	$_{ m IgG}$	(B)	IgM	80 · .	
	(C)	IgA		IgE		
20.	Whie	ch immunoglobulin class is the n	nost efficient	to produce ag	glutination	reaction?
	(A)	IgG		IgM		
	(C)	IgA	(D)	IgE		
21.	Whic	ch of the following tests does not	use complem	ent?		
	(A)	T.Pallidum immobilization tes	t			
	(B)	Sabiu-Feldman dye test				
	(C)	Vibriccidal antibody test			*	
	<b>S</b>	Weit felix test				
22.	The	following enzymes are used in E	LISA except			
	(A)	Horse Radish Peroxidase				
	(B)	eta -Galactosidase				
	(C)	Alkaline phosphatase				
	S	Acid phosphatase				
						57
23.	Lepr	omin test is an example of				
	(A)	Type I hypersensitivity reactio	n		, t <sub>a</sub>	
	(B)	Type II hypersensitivity reaction	on			
	(C)	Type III hypersensitivity react	ion	1. 3		
	<b>3</b> )	Type IV hypersensitivity reacti	ion			
			9 6			

24.	The	genes encoding proteins inhibiting excessive	cell proliferation are called
	(A)	Apoptosis genes	Tumor suppressor genes
	(C)	Proto – oncogenes (D)	Allogenes
1			
25.	Cha	diak – Higashi syndrome is an immuno defici	ency diseases which occurs due to
	(A)	T cell defects (B)	B cells defects
	(C)	Complement disorder	Diminished phagocytic activity
26.	All o	f the following are diseases of combine immu	no deficiencies <u>except</u>
	(A)	Ataxia telengiectasia (B)	Wiskott – Aldrich syndrome
	(C)	Reticular dysgenesis of de vaal	Leukocyte G6PD deficiency
27.	The	following are the Immunological complication	ns after blood transfusion except
	(A)	Allergic reactions	
	1	Human T-Lymphotropic virus infection	
	(C)	Acute hemolytic reaction	
	(D)	Transfusion associated acute lung injury	
28.	The f	following are characteristics of Live Vaccines	except
	(A)	Reverting back to virulent form	
	(B)	Excretion of vaccine virus and transmission	n to non-immune contacts
	(C)	Interference by other micro organisms in h	ost
	B	High stability at room temperature	
29.	All th	ne following vaccines are to be stored cold but	t not froyen <u>EXCEPT</u>
	1	Polio (B)	DPT
	(C)	BCG (D)	Hepatitis B
	100 m 200		

30.	All a	re zoonotic except			
	(A)	Brucellosis			
	(B)	Plague			
	(C)	Tularensis			
	1	Floppy baby syndrome			
9					
31.	Micro	ococci are differentiated from sta	aphylococci b	y	
72	S	Of test	(B)	Oxidase test	
	(C)	PYR test	(D)	Motility test	
32.	Selec	tive medium for streptococci is	* - 9 * *		X
	(A)	Milk agar			
	S	Crystal violet blood agar			
. 5,	(C)	Mackonkey agar	Av.		
	(D)	TCBS			
33.	Drug	of choice for Vancomycin Resist	ant Staphyl	ococcus Aureus (VF	RSA) is
	(A)	Cloxacillin	9.0		
	(B)	Methiclin			
	(C)	Teicoplanin			
	1	Linezolid			
34.	Most	common organism associated w	ith stitch ab	scess is	2 1 =
u e	$\langle A \rangle$	Staphylococcus epidermidis			
	(B)	Staphylococcus haemolylicus			
	(C)	Staphylococcus lugdonensis	=		
	(D)	Staphylococcus saprophyticus	= 8		

35.	Sens: EXC	itivity tests for Mycobacterium tuberculosis are carried out by the following methods EPT
	(A)	Absolute concentration method
	(B)	Resistance Ratio method
	(C)	Proportion method
	S)	Ratio comparative method
36.	Provi	idencia shrartii is sensitive to one of the following disinfectant
	A	Glutaraldehyde (B) Cetrimide
	(C)	Chlorhexidine (D) Silver sulphonamide
	(0)	· (2)
	D7 77	T. A. D. W. A. L.
37.		Γ medium for Bacillus anthracis contains all EXCEPT
	(A)	Polymyxin (B) Lysozyme
		Lysostaphin (D) Thallus Acetate
38.	Shige	ella dysentriae Type I is
	(11)	Catalase Negative (B) Catalase positive
	(C)	Indole positive (D) Oxidase positive
39.	All a	re true about pneumonic plague EXCEPT
	(A)	Spread by droplet infection
	(B)	Cause Haemorrhagic pneumonia
	(C)	Highly infections
		It is not fatal
	•	
40	Thursa	about Francisella tularensis
40.	(A)	Non motile gram positive bacillus
	(A)	
	<b>S</b>	Infection of Reticuloendothelial system
	(C)	Motite gram negative bacilli
	(D)	It is not a zoonotic infection

41.	Botr	yomycosis caused by		
	(A)	Actinomyces israelisi	(B)	Actinomyces bovis
118	(C)	Nocardia	V	Staphylococus aureus
42.	Anto	n test is done to diagnose		
	S	Listeriosis	(B)	Melioidosis
	(C)	Sarcoidoins .	(D)	Erysipeloid
			6 W. 11	
43.	Caus	sative agent of ciliate dysentery is		
	(A)	Entamoeba histolytica	(B)	Entamoeba coli ,
	\$	Balantidium coli	(D)	Cryptosporidium Parvum
44.	Pseu	docyst of T.gondii is present in all, ex	cept	
	(A)	Liver		Heart
	(C)	Lymphnode	(D)	Spleen
<b>45</b> .	Caus	ative agent of Oriental sore is		
	(A)	L.Donovani	(B)	L.Braziliensis
	1	L.Tropica	(D)	T.Cruzi
	Ė,			
46.	Mult	iplication of the T.cruzi parasite occur	rs only a	t
	(A)	Trypomastigote form	100	Amastigote form
	(C)	Epimastigote form	(D)	Metacyclic form

41.	16111	illiai-opined eggs are characteristic of		
	10	S. haematobium	(B)	S. mansoni
	(C)	S. japonicum	(D)	S. intercalatum
· ×			÷ , '.	
48.	A pa	rasite attacking an unusual host is call	ed as,	
	(A)	Aberrant parasite	6	Accidental parasite
	(C).	Temporary parasite	(D)	Wandering parasite
49.	The	following microfilaria are present both	in Blo	od and Skin,
	(A)	Mf. Volvulus	(B)	Mf. Ozzardi
	(C)	Mf. Streptocerca	(D)	Mf. Timori
50.	Whic	ch one of the following is the largest int	estina	l nematode?
<i>5</i> 0.	(A)	T. Spiralis	(B)	S. Stercoralis
		D. Medinensis	(D)	T. Trichiura
8				
51.	The	term 'Rat lungworm' is associated with		
<b>J1.</b>	(A)	Trichinella spiralis	(B)	Toxocara canis
	(C)	Toxocara cati	1	Angiostrongylus cantonensis
	(0)	TOXOCATA CALL		*
<b>52</b> .	Uab:	tat of Trichuris trichiura is		
32.	(A)	Duodenum	(B)	Jejunum
	(A) (C)	Ileum		Caecum
	(0)			,
53.	The	term 'Cat liver Fluke' is associated with	h	
55.	The	Opisthorchis felineus		
	(B)	Paragoninus westermani		
n traffic	(C)	Clonorchis Sinensis		and the second s
	(D)	F. hepatica.		
	(2)	- 1, P. 1-1-1-1		

54.	Whic	Which one of the following is called Dog tapeworm?						
	(A)	D. latum	(B)	H. diminuta				
	(C)	T. saginata	1	E. granulosus				
<b>55</b> .	Cysti	icercoid Larvae development is seen in	n the li	fe cycle of				
	(A)	T. saginata	(B)	T. solium				
	10	H. nana	(D)	Multiceps				
			*					
56.	Virio	d is the						
	(A)	DNA virus						
	(B)	enveloped DNA virus	8					
	10	naked small ssRNA without capsid						
	(D)	enveloped RNA virus						
**								
<b>57</b> .	Deng	ue virus belong to the family						
	V	Flavi viridae	(B)	Filo viridae				
	(C)	Calci viridae	(D)	Toga viridae				
58.	Hum	an immuno deficiency virus belongs to	the fa	mily				
	(A)	Reo viridae	(B)	Bunya viridae				
	VO	Retro viridae	(D)	Filo viridae				
59.	The t	erm 'Helical Symmetry' virus is assoc	iated w	rith				
	(A)	Herpes simplex virus						
	(B)	Hepatitis B						
	(C)	Hepatitis A						
	100	Corona virus						

60.	Cow	ry type A inclusion bodies are seen in	
	(A)	Mumps virus infection	
	(B)	Measles virus infection	
	1	Yellow fever virus infection	
	(D)	Rabies virus infection	
61.	Whic	h of the following viral infection? Produces Negri bodies?	
	(A)	Ebola virus (B) Corona virus	
	1	Rabies virus (D) Adeno virus	
62.	Tbili	i phage typing is employed for typing	
	(A)	Staphylococcus aureus	
	6	Brucella	
	(C)	Streptococcus viridans	
	(D)	Salmonella	
63.	Antiv	iral drug Acyclovir and Penciclovir inhibit enzyme	
	(A)	Viral RNA polymerase	
		Viral DNA polymerase	
	(C)	Viral reverse transcriptase	
	(D)	None of the above	
64.	Inter	eron production not induced by viruses is	
	1	Gamma interferon	
	(B)	Alpha and gamma interferon	
	(C)	Beta interferon	
	(D)	Alpha interferons	

65.	Whic	ch of the following serotypes of adenoviruses	causes swimming pool conjunctivitis?
	(A)	7, 3	3, 7
	(C)	13, 7 (D)	3, 17
66.	The r	most common mucosal site affected by Herpe	s simplex virus type 1 is?
	(A)	Mucosa lining respiratory tract	Buccal mucosa
i e	(C)	Genital mucosa (D)	Nasal mucosa
67.		most common site affected by Herpes Zo	ster is area innervated by which of th
	(A)	Spinal cord segments D <sub>1</sub> to D <sub>3</sub>	
	<b>(6)</b>	Spinal cord segments D <sub>3</sub> to L <sub>2</sub>	
	$_{i}(\mathbf{C})$	Spinal cord segments L <sub>3</sub> to L <sub>5</sub>	
	(D)	Spinal cord segments D5 to D7	
68.	7790	are form of Herpes Zoster affecting facial ne panic membrane and external auditory canal	
	(A)	Job's syndrome	
	(B)	Varicella syndrome	
,	(6)	Ramsay Hunt syndrome	
100	(D)	Severe Acute Respiratory syndrome	
69.	Whic	ch of the following refers to benign warts caus	sed by papilloma virus in young children?
	V.	condyloma acuminatum (B)	verruca vulgaris
	(C)	verruca plana (D)	plantar warts
70.	Eryt	thema infectiosum is also known as	
	(A)	Fourth Disease	Fifth Disease
	(C)	Sixth Disease (D)	Seventh Disease

71.	1. Hepatitis virus not transmitted by blood and blood products is			
	(A)	Hepatitis B	(B)	Hepatitis C
*	(C)	Hepatitis G	100	Hepatitis E
72.	One	of the following statements is fa	lse about Ky	asanur Forest Disease
	(A)	It is a Tick borne haemorrhag		a
	(B)	Principal vector is Haemaphy	salis spiniger	a
	(C)	It is antigenically related to R	SSE complex	
		Pigs out as amplifier host		
73.	Whic	ch is the first human disease ide	ntified to be	associated with a virus?
	(A)	Dengue		
4,10	(B)	Chihungunya		
94	(C)	Erythema infectiosum	*	
	(0)	Yellow fever		
74.	Whic	ch of the following viral diseases	does not res	ult in haemorrhagic fever?
4 754	V	Louping ill	(B)	Ebola
	(C)	Lassa fever	(D)	Yellow fever
75	1171.:.	h af tha fallowing is NOT a shor	nastariatia fac	ture of AIDS2
75.		ch of the following is <u>NOT</u> a char Polyclonal B cell activation	racteristic lea	iture of AIDS:
	(A)	Hypogamma globulinemia		
	((1)	5.0 50 E		e i jestet i j
	(C)	Hypergamma globulinemia		
	(D)	Lymphonemia		
76.	Cerc	opithecus aethiops is the source	of.	
	(A)	HIV-1 virus		
	(3)	HIV-2 virus		
	(C)	Simian immunodeficiency viru		
	(D)	Feline T Lymphotrophic virus		

	(A)	25°C	(B)	30°C
	1	37°C	(D)	14°C
	82		4	
78.	Ochr	atoxins producing fungal species are al	l exce <sub>l</sub>	pt
	(A)	Aspergillus ochraceus	(B)	Aspergillus niger
	6	Fusarium moniliforme	(D)	Penicillium verrucosum
S (8)	,			
79.	The l	largest phylum of kingdom fungi is	•	
	(A)	Ascomycota	(B)	Basidiomycota
	(C)	Deuteromycota	(D)	Zygomycota
			*2	
80.	The t	term 'fungus ball' is synonymous with		
	(A)	Aspergillus asthma	(B)	Invasive aspergillosis
	1	Aspergilloma	(D)	Broncho pulmonary aspergillosis
81.	All o	f the following fungi are anthropophilic	derm	atophytes except
	(A)	Trichophyton rubrum		
	(B)	Trichophyton violaceum	10	
	10	Trichophyton verrucosum		
	(D)	Microsporun audouinii		
1			30	
82.	- Whic	ch of the following genus of dermatophy	tes do	es not infect nails
	(A)	Trichophyton rubrum		
	(8)	Microsporum		
	(C)	Epidermophyton		
	(D)	Trichophyton mentagrophytes	,	
*				

Dimorphic fungi grow as yeast forms at the following temperature

77.

83.	Most commonly causative species of CNS Aspergillosis.
	(A) Aspergillus fumigatus
	(B) Aspergillus flavus.
	(C) Aspergillus terreus
17	(D) Aspergillus versicolor
.` 84.	Intestinal candidiasis presenting as diarrhoea is a frequent sequel to
	(A) Diabetes Oral antibiotic Therapy
	(C) Corneal infection (D) Surgery
85.	Coral red Fluorescence seen under wood lamp.
	(A) Malassezia Furfur
*	(3) Corynebacterium minutissimum
	(C) Microsporum gypseum
	(D) Trichophyton schoenleinii
86.	50 year old male presents with headache vomiting and neck rigidity. India Ink staining of
	CSF reveals spherical budding yeast cells with clear halo surrounding. What is the
	etiological agent?
	(A) Naegleria Cryptococcus
	(C) Chromoblastomycosis (D) Aspergillus
87.	Acute brucellosis is also known as
	(A) Aluoxic fever (B) Filarial fever
	(C) Enteric fever Undulant fever

88.	All a	re true about Helicobacter pylori infections except
	(A)	Less common in developing countries
	(B)	Highly motile
	(C)	Rapid urease test positive
	(D)	Adenocarcinoma of stomach.
	8 g/	
89.	Incu	bation period in gastroenteritis due to salmonella is
	(A)	6-12 hrs (B) 12-24 hrs
	10)	12-36 hrs (D) 24-48 hrs
90.	Whic	ch of the following comes under upper UTI?
	(A)	Cystitis (B) Prostatitis
	B	Pyelitis (D) Urethritis
	Υ.	(D) Creaming
91.	Most	common cause of Bronchiolitis
<b>31</b> .	(Á)	Rhinoviruses
	(A) (B)	Influenza viruses
	2)	
	(C)	Corona viruses
		Respiratory Syncytial viruses
92.		nemical analysis of Tubercular Meningitis reveals all of the following except
	(A)	CSF pressure : Moderately elevated
	(B)	CSF protein: Markedly increased
	VET	CSF glucose: Slightly increased
	(D)	Call count : Increased, lymphocytic
93.	How	does staphylococcus aurens acquire during resistance?
	(A)	Transformation Transduction
	(C)	Mutation (D) Conjugation
		그 그 그 그는 그는 그 그 그 그 그 그 그 그 그 그 그 그 그 그

94.	The	mechanism of action of Fluoroquinolo	ne agair	nst bacteria is
	(A)	Inhibition of RNA synthesis		
	S)	Inhibition of DNA synthesis		
	(C)	Inhibition of cell wall synthesis		
	(D)	Inhibition of translation		
	77 E			
95.	Und	er the Bush – Jacoby – Medeioros F	unction	al classification scheme for $\beta$ - lactamase
		me carbaperamase comes under secti		
	(A)	1	(B)	2e
		2f	(D)	2a
96.	The	following viruses are emerging zoonot	ic virus	es EXCEPT
	(A)	Lassa	(B)	Hantavirus
	(C)	Marburg	1	Calcivirus
97.	Mini	mum inhibitory concentration of vam	omycin	to VRSA,
	S)	> 8 µg/ml	(B)	> 4 µg/ml
y f	(C)	> 2 µg/ml	(D)	> 1 μg/ml
98.	How	many maximum antimicrobial disk	s should	d be placed on a 100 mm Mueller Hinton
	agar	plate?		
	(A)	upto 5 disks		
		upto 6 disks	14	
	(C)	upto 7 disks		

(D)

upto 8 disks

99.	Whic	Which one of the following is not a "nonsense codon"?						
	(A)	UAA	<b>(8)</b>	UGG				
	(C)	UAG	(D)	UGA				
100.	Anti	sepsis in surgery was first introduced	l by					
	A)	Joseph Lister	(B)	Edward Jenner				
	(C)	Louis Pasteur	(D)	Robert Koch				
101.	'Scha	aeffer-Fulton' procedure is used to sta	in and v	visualise which bacterial cell organelle?				
	(A)	Bacterial capsule	(B)	Bacterial flagella				
	1	Bacterial endospores	(D)	Bacterial cell wall				
18								
102.	The f	foundations of immuno chemistry was	s laid hy	the pioneering work of				
	1	Karl Landsteiner	(B)	Paul Ehrlich				
	(C)	Frank Burnet	(D)	Roux and Yersin				
	-22 -3		£					
103.	1	——— is called the Father of bacter	iology					
100.	(A)	Robert Koch	lology.	Antony Van Leeuwenhoek				
	(C)	Robert Hook	(D)	Louis Pasteur				
	(-)		(D)	Louis I asteur				
104.	The		•					
104.	(A)	spontaneous theory of generation of m Leeuwenhoek	icroorga					
	(C)	Robert Hook	<b>(D)</b>	Francesco Redi				
	(0)	Tubert Hook	(D)	Galileo				
105 )	XX71 · · ·							
105.		h among the following provides a thre		isional view of the specimen?				
	(A)	Transmission Electron Microscope (	TEM)					
	(B)	Scanning Electron Microscope (SEM	1)					
	(C)	Phase Contrast Microscope						
	(D)	Darkfield Microscope	Tar. 19					

100.	repu	doglycan layer of cen wan	is thicker in	
	(A)	Fungi	(B)	Parasites
	1	Gram positive bacteria	(D)	Gram Negative bacteria
107.	Whic	h of the following can be vi	sualized by routin	e gram staining?
	(A)	Chlamydia trachomatis		
	1	Actinomycetes naeslundii		
	(C)	Rickettesiae		
100	(D)	Treponema pallidum		
108.	Nocai	rdia species are stained by	strong carbolfuch	sin and resist decolorisation with
	VA	0.5% Sulphuric acid	(B)	1% Perchloric acid
V	(C)	2% Activated carbon	(D)	0.5% Acetic acid
109.	The b	acteria which require high	er level of carbon	dioxide for their growth are known as
	(A)	Micro aerophilic bacteria	(B)	Aerophilic bacteria
	· (C)	Aerobic bacteria	B	Capnophilic bacteria
110.	Bacte	ria which can grow at temp	erature between	25°C and 40°C are known as
	1	Mesophiles	(B)	Thermophiles
	(C)	Psychrophiles	(D)	Microthermophiles
111.	Strep	tococcus pyogenes are		
	(A)	Obligate anaerobe	(B)	Obligate aerobe
	(C)	Facultative anaerobe		Aerotolerant anaerobe

112.	Secre	tory IgA contains		
	(A)	Polypeptide		
	4	Glycine-rich polypeptide		
	(C)	Polysaccharide		
	(D)	Glycine rich polysaccharide		
113.	All th	ne following are tumour suppressor gen	es EX	CEPT
	(A)	APC	(B)	NF-1
	(C)	NF-2	\$	erb-B
10	(9)			
	4.17 .1	C. N	- *	
114.		ne following are the steps of phagocytos	es exc	ept
	(A)	Recognition		
	<b>(B)</b>	Antigen Presentation		
	(C)	Engulfment		
	(D)	Fusion		
115.				al damage is produced by the action of ainst the normal components of the body i
	calle			
	(A)	Acquired immunity	(B)	Adaptive immunity
	1	Auto immunity	(D)	Innate immunity
116.	Ouch	nterlony procedure is		
110.	(A)	Single diffusion in one dimension		
	(B)	Double diffusions in one dimension		
	(C)	Single diffusion in two dimensions	, W.	
	(C)	Double diffusions in two dimensions		
	(0)	Double diffusions in two difficulties		
117.	Vaco	ination induces		
	(A)	Active natural immunity	(B)	Passive natural immunity
	40	Active artificial immunity	(D)	Passive artificial immunity

	(A)	$_{ m IgG}$	(B)	IgM		
	(C) .	IgA	(D)	IgE		
119.	Exam	nple of a fungal super an	tigen is	n.		
	(A)	Candida albicans				
	S)	Malassezia furfur				
	(C)	Aspergillus				
	(D)	Cryptococcus capsule				
120.	First	component of compler	ment which binds	to antigen-antib	ody complex	in classica
	pathy	way is				
o [197]	JA)	Clq	(B)	Clr		
	(C)	Cls	(D)	C3		
121.	Whic	h is the earliest immuno	globulin to be synth	esised by the foet	us?	
	(A)	IgG	<b>S</b>	IgM		
	(C)	IgA	(D)	IgE	*	
**						
122.	Whic	h component of complem	ent is present in th	e highest concent	ration in the se	erum?
	(A)	C1	(B)	C2		
	6	C3	(D)	C5		er si

Which immunoglobulin class can pass through placenta?

118.

123.		antibodies to ribonucleoprotein (RNP) nich disease	antige	ens SS-A (RO) and SS-B (La) are produce
	(A)	Sjogren syndrome	(B)	Systemic sclerosis
	(C)	Multiple sclerosis	(D)	Systemic Lupus Erythematous (SLE)
124.	Whic	h class of immunoglobulin mediates Ty	ype I h	hypersensitivity reactions?
	(A)	Ig G	(B)	Ig M
	(C)	Ig A	1	Ig E
125.		antibodies bind to basement membra is the hallmark of	ne ant	tigens on kidney glomeruli and the alveol
	<b>(</b> A)	Good Pasture syndrome	(B)	Myasthenia gravis
	(C)	Grave's disease	(D)_	Hashimoto's thyroiditis
126.	Anti	Citrullinated peptid Antibodies (ACPA	) are o	diagnostic for
	(A)	Systemic Lupus erythmatous	<b>B</b> )	Rhumatoid arthritis
	(C)	Sjogren syndrome	(D)	Scleroderma
		and the state of the contract of		
127.	The a	ability to respond immunologically to a	n anti	gen is conditioned by
. 6	(A)	Tumor suppressor	1	Immune response genes
	(C)	Allogene	(D)	Histocompatibility gene
128.	Whic	h of the following HLA typing given hi	gh res	olution matching?
	(A)	Microcytotoxicity		
	(B)	Mixed lymphocyte reaction		
100	(C)	PCR - RELP (Restriction Fragment )	Length	n Polymor Phism)
	<b>(3</b> )	PCR - DNA sequencing typing		
129.	Best	example of syngeneic graft		
	(A)	Between dizygotic twins		
8 *	\$	Between monozygotic twins		
	(C)	Between two member of same or diffe	erent s	species
	,(D)	Between two sites of same person		

130.	Selec	ctive media for N. gonorohea is
	$\langle A \rangle$	Thayer Martin medium
	(B)	Cooked meet medium
	(C)	Blood agar
	(D)	Serum agar
131.	Wood	d sorter's disease is also known as
	(A)	Cutaneous anthrax
- 1 5 %	B	Pulmonary anthrax
	(C)	Intestinal anthrax
	(D)	Pulmonary tuberculosis
300		
132.	Liqui	id medium for tubercle bacilli is
		Middle book 7H9 (B) Middle book 7H8
	(C)	Middle book 7H10 (D) LI medium
133.	Vero	cytotoxin 1 of E. Coli is similar to
	1	Shiga toxin
	(B)	Cholera toxin
	(C)	Enterotoxin of S. aureus
	(D)	Toxin of B. Cereus
	E 1	
134.	Whic	h of the following salmonella ferments glucose with acid but no gas
	(A)	S. Paratyphi A
	(B)	S. Paratyphi B
	(C)	S. Choleraesuis
	1	S. Typhi

135.	Clini	cal manifestations of enterococci are all except
	(A)	Urinary tract infections
	(B)	Neonatal sepsis
	(C)	Neonatal meningitis
a	S	Neonatal conjunctivitis
136.	Whic	ch is not a risk factor for meningococcus infection
	(A)	Travellers
	(B)	Smoking
	(C)	Over crowding
	<b>(</b> )	Defficiency of Early complement components
137.	Wate	er house – Friderichsen syndrome, All are true EXCEPT
	(A)	Caused by meningococcus
	(B)	Bilateral adrenal haemorrhage seen
	(C)	Purpura fulminans is a feature
	B	Pathogenesis is due to capsule
138.	Cory	nebacterium parvum can be used as
	(A)	Vaccine
	0	Immunomodulator
	(C)	Toxin production
	(D)	Adjuvant
	7	
139.	Wool	sorter's disease is a
	(A)	Cutaneous anthrax
	(B)	Intestinal anthrax

Anthrax meningitis

Pulmonary anthrax

140.	Braz	ilian purpuric fever caused by		
	(A)	Haemophilus aphnophilus	13)	Haemophilus aegyphius
	(C)	Coxiella burnetii	(D)	Rickettsia prowazekii
141.	Tran	sport media used for isolation of vibro	choler	ae from stool specimen are all EXCEP
	(A)	Alkaline salt medium	(B)	Autoclaved sea water
	(C)	Cary Blair medium	16	Stuarts medium
•				
142.	Oxid	ase Negative Pseudomonas species is		
	(A)	Pseudomonas oxyzihabitans	(B)	Pseudomonas paucimobilis
	(C)	Pseudomonas aeruginosa	1	Pseudomonas luteola
3				
143.	Most	t common mode of transmission of Legi-	onella	Pneumonhila is
140.		Inhalation	(B)	Ingestion
	(C)	Blood	(D)	Insect bite
	(0)			
	0.0			
144.	(1760) 1980) (1980)	ver caused by	.1	Coxiella burnetii
	(A)	Rickettsia conori	<b>(D)</b>	
	(C)	Rickettsia prowazeki	(D)	Borbonella
*				
145.	Miya	ngawa granulocorpusles are seen in		
	(A)	Trachoma		
	<b>(3)</b>	Lymphogranuloma venereum		
	(C)	Syphilis		
	(D)	Psittacosis		
146.	Whic	ch is not a property of Mycoplasma?	a e I lei ,	
		Susceptibility to Beta lactams		
	(B)	Have both DNA and RNA		
	(C)	Can grow in cell free media		
	(D)	Extracellular survival	A	

147.	Vect	or for African Trypa	nosomiasis			
	(A)	Sand fly		1	Tsetse fly	#
	(C)	Mosquito		(D)	Tick	
148.	Chro	nic amoebic keratit	is (CAK) is a com	plication	of	
1	(A)	N.Fowleri		4	A.Castellani	E .
	.(C)	B.Mandrillaris		(D)	E.Histolytica	
						il e
149.	Extra	a intestinal phase of	f taxoplasma gono	dii is see	n in all, except	
	(A)	Man		S	Cat	
	(C)	Mouse		(D)	Cow	
	2.1 - 3. s.		R 3			
150.	Pern	icious malaria is ca	used by,			
4.5	(A)	P. Vivax		(B)	P. Ovale	
	V	P. Falliparum		(D)	P. Malariae	
			ta i bi v			
151.	Maur	rer's dots are presen	nt in the infected l	RBC of,		et.
	(A)	P.Vivax		8	P. Falciparum	
	(C)	P. Malariae		(D)	P. Ovale	
-						
152.	Float	ation of eggs is char	racteristics of the	followin	g organisms EXCE	PT .
	(A)	A. lumbricoides				
	(B)	Trichuris trichiura	a			
		T. Saginata				
	(D)	A. duodenale			E TOTAL WE	

153.	The I	Distome of China is refers to		11 1
	(A)	Clonorchis Sinensis	(B)	F. hepatica
	(C)	F. buski	(D)	S. japonicum
154.	Caus	ative agent of Bilharziasis	*	
	16	S. haematobium	(B)	S. mansoni
2	(C)	S. japonicum	(D)	S. intercalatum
155.	Dipyl	idium Caninum is known as		
	(A)	Rat tape worm		
	<b>(8)</b>	Double – pored dog tape worm		
	(C)	Gid worm		
	(D)	Beef tapeworm		
	4			
156.	All of	the following are Liver Flukes, excep	ot	
	(A)	C. Sinensis	(B)	O. Felineus
	(C)	F. Hepatica	10)	G. Hominis
157.	The p	phrase 'Serpent worm' is associated w	ith	
	(A)	Loa loa		
*	(B)	Onchocerca Volvulus		
	4	Dracunculus Medineusis		i i
	(D)	Dirofilaria immitis		
- 2				

158.	Whic	Which of the following is the smallest virus?							
	(A)	Papo virus	(B)	Parvo virus					
	(C)	Pallimoa virus	(D)	Rubella virus					
159.	Viro	pexis is the							
	S	Receptor mediated endocytosis							
	(B)	Synthesis of Nucleic Acids							
	(C)	Exocytosis							
	(D)	Uncoating of virus							
	n.								
160.	In eg	g inoculation, yolk sac route is used to							
	S	Cultivate arbo viruses							
	(B)	Cultivate Hepatitis A virus							
	(C)	Cultivate salmonella bacteria							
	(D)	Cultivate Mycobacterium tuberculosi	is						
	5.								
161.	In eg	g inoculation, Amniotic sac route is us	ed to c	ultivate					
n 3	4	Influenza virus	(B)	Herpes simplex Virus – 1					
	(C)	Epstein Barr Virus	(D)	Herpes simplex Virus – 2					
162.	In mo	olecular methods real time RT – PCR i	s used	for					
	(A)	Quantification of DNA	8	Quantification of RNA					
e	(C)	Identification of prions	(D)	Detection of Proteins					
163.	Which	h of the following viruses are called or	phan y	iruses?					
	(A)	Polio virus	1	Echo virus					
	(C)	Coxsackie virus	(D)	Entero virus					

164.	Whic	th of the following vaccine is killed vacci	ine?	
	(A)	Sabin polio vaccine		
	(B)	BCG vaccine		
	1	Salk polio vaccine		
	(D)	Sabin and salk polio vaccine		
	4			
165.	Туре	I interferons are		
	(A)	Alpha and gamma interferon	1900	50 F and 1 g d
	(B)	Beta interferon		
•	16	Alpha and beta interferons		
	(D)	Gamma interferon	8	N' 51
166.	Virus	oids are		
	(A)	Animal pathogen	95)	Plant pathogen
	(C)	Aquatic virus	(D)	Human pathogen
167.	Name	e the filamentous shaped virus		
	(A)	Herpes virus	<b>(6)</b>	Ebola virus
	(C)	Parvo virus	(D)	Rabies virus
168.	Small	pox was eradicated in the year		
	<b>A</b> )	1977	(B)	1978
	(C)	1967	(D)	1957
169.	Which	n year did WHO announced global eradi	catio	n of small pox?
	S	May 8 <sup>th</sup> 1980	(B).	May 18th 1980
	(C)	March 18th 1980	(D)	May 8th 1981

170.	The f	collowing are the strains of Poliovirus E	xcept'	?	
	(A)	Lansing and MEFI strain			
	(B)	Leon and Saukett strain	*		
	1	Dahar strain			
	(D)	Mahoney strain			
171.	When	n passaged serially in eggs the progeny	influe	enza virus show high ha	emagglutinin titre
		ow infectivity which is called as?			
	V	Von Magnus Phenomenon			
	(B)	Pfeiffer's phenomenon			
	(C)	Koeber's phenomenon			
	(D)	· Kauffman's phenomenon			
172.	What	t is the natural host for Nipah Viruses?			
	(A)	Pigs	(B)	Herons	
	4	Fruit bats	(D)	Horses	
		<i>y</i>			
173.	The f	following mumps vaccine are available	except	t	
1.0.	(A)	Monovalent mumps vaccine	•		
	-08	Divalent measles mumps vaccine			
	(C)	Trivalent MMR vaccine			
	(D)	Quadrivalent MMR-V vaccine			
	(2)	quadrivate in mining viscome	8		
174	Dah:		* .		
174.		es is not seen in	<b>/D</b> \	D 1	
	(A)	India	(B)	Brazil	
22	(G)	Australia	(D)	China	

175.	All ar	e structural genes in the genome of HIV Except?	
		nef (B) gag	
	(C)	env (D) pol	
			**
176.	Whic	n one of the following statements about prions is false?	
	<b>(</b> 1)	Prions are non-infectious proteins	
	(B)	Prions are infectious proteins	,
	(C)	Prions have not caused disease in Americans	
	(D)	Prusiner proposed protein-only hypothesis	
177.	Whic	h of the following viruses is a DNA oncogenic virus?	
	(A)	Murine lentrosis viruses	×
	(B)	Avian lentrosis viruses	
	(C)	Murine mammary tumour virus	
	<b>(</b> )	Yaba virus	
	•		
178.	Whic	h of the following virus is a long thread like RNA?	
	(A)	Zika virus Ebola virus	
	(C)	Nipah virus (D) Hendra virus	
179.	Whic	h of the following is not a modes transmission of zika virus?	
		Breastfeeding	
	(B)	Blood transfusion	
	(C)	Perinatal transmission	
1 × ½ 1 11	(D)	Sexual transmission	

180.	Black	k piedra is caused by one of the follo	wing fun	gi	
	(A)	Trichosporon species		Piedraia hor	tae
	(C)	Hortaea werneckii	(D)	Malassezia f	urfur
181.	Whic	h of the following fungi is geophilic	dermator	hyte?	
	S	Microsporum gypseum		,	
	(B)	Microsporum equinum			
	(C)	Microsporum persicolor			* * * * * * * * * * * * * * * * * * *
	(D)	Microsporum canis			
120			2 y 2000 3 f y 12 1		
182.	Whit	e piedra is caused by one of the follo	wing fun	gi?	
	(A)	Malassezia furfur	(B)	Hortaea weri	neckii
. X 2	(C)	Piedraia hortae	6	Trichosporon	species
				· ·	
183.	Phial	ophora verrucosa is a tropical / subt	ropical fu	ingus that cau	ises
	(A)	Maduro mycosis			
	(3)	Chromoblastomycosis			
	(C)	Sporotrichosis			
	(D)	Candidiasis			
				e a fill ma	
.84:	Deser	rt rheumatism is seen in			
	1	Coccidioidomycosis			
	(B)		A		
		Paracoccidioidomycosis			F
pro-	(C)	Histoplasmosis			
	(D)	Blastomycosis	v*		

185.		rding to Durack and street classificati fined as the following except	on, clas	ssic Fever of unknown origin (Classic FUO)
	(A)	Temperatures of > 38.3°c	(B)	Duration of > 1 wks
	(C)	Duration of > 3 wks	(D)	Three outpatient visits
186.	Post	operative endocarditis is due to		
515	A	Staphylococcal epidermidis		
, a .	(B)	Staphy lococcus aureus		
	(C)	Streptococcus pyogenes		
	(D)	Streptococcus viridans		
	e .			
187.		tient in an ICU is on a CVP line. His I h is catalaes positive and coagulase ne		ulture shows growth of gram positive Cocci The most likely etiological agent.
	(A)	Staphylococcus aureus	<b>(6)</b>	Staphylococcus epidermidis
	(C)	Streptococcus Pyogenes	(D)	Enterococcus faecalis
188.	Han	d rub should not be used in which cond	lition.	
	(A)	Before touching patient		
	(B)	After touching patient		
	10	Hands are visibly soiled		
12.1	(D)	After touching patient's surrounding		
			<b>\$</b> 3	
189.	Pseu	dobubo is present in		
	(A)	LGV	(B)	Suphilis
	(C)	Chancroid	(D)	Donovanosis
190.	TOR	CH infection include all except		
	(A)	Toxoplasmosis	(B)	Orthomyxoviruses
	(C)	Rubella	(D)	Herpes

191. Chemoprophylaxis for high chloroquine resistance is  A) Mefloquine 250 mg 1 tablet weekly  (B) Proguanie 100 mg  (C) Primaquine  (D) Piperaquine  192. Both live attenuated and killed vaccine is NOT available for which of the following?  (A) Polio virus  (B) Yellow fever  (C) Chicken pox  (D) Japanese B encephalitis  193. Newer Hendra and Nipah virus-vaccine is  (A) Live vaccine  (B) Killed vaccine  (C) Subunit vaccine using oka strain is available for  (A) Rabies virus  (C) Polio V  (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine?  (C) WC V. cholerae ElTor  (C) WC V. cholerae classical  (D) WC V. cholerae inaba			
(B) Proguanie 100 mg (C) Primaquine (D) Piperaquine  192. Both live attenuated and killed vaccine is NOT available for which of the following? (A) Polio virus (B) Yellow fever (C) Chicken pox (D) Japanese B encephalitis  193. Newer Hendra and Nipah virus-vaccine is (A) Live vaccine (B) Killed vaccine (C) Subunit vaccine using oka strain is available for (A) Rabies virus (C) Polio V (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine? (C) WC V. cholerae E1Tor (C) WC V. cholerae classical	191.	Cher	moprophylaxis for high chloroquine resistance is
(C) Primaquine (D) Piperaquine  192. Both live attenuated and killed vaccine is NOT available for which of the following?  (A) Polio virus (B) Yellow fever (C) Chicken pox (D) Japanese B encephalitis  193. Newer Hendra and Nipah virus-vaccine is (A) Live vaccine (B) Killed vaccine (C) Subunit vaccine (D) Toxoid  194. Live attenuated vaccine using oka strain is available for (A) Rabies virus (C) Polio V (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine? (C) Dukoral (B) WC V. cholerae E1Tor (C) WC V. cholerae classical		<b>(</b> )	Mefloquine 250 mg 1 tablet weekly
(D) Piperaquine  192. Both live attenuated and killed vaccine is NOT available for which of the following?  (A) Polio virus (B) Yellow fever (C) Chicken pox (D) Japanese B encephalitis  193. Newer Hendra and Nipah virus-vaccine is (A) Live vaccine (B) Killed vaccine (C) Subunit vaccine (D) Toxoid  194. Live attenuated vaccine using oka strain is available for (A) Rabies virus (C) Polio V (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine? (C) Dukoral (B) WC V. cholerae E1Tor (C) WC V. cholerae classical		(B)	Proguanie 100 mg
192. Both live attenuated and killed vaccine is NOT available for which of the following?  (A) Polio virus (B) Yellow fever (C) Chicken pox (D) Japanese B encephalitis  193. Newer Hendra and Nipah virus-vaccine is (A) Live vaccine (B) Killed vaccine (C) Subunit vaccine (D) Toxoid  194. Live attenuated vaccine using oka strain is available for (A) Rabies virus (C) Polio V (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine? (C) Dukoral (B) WC V. cholerae E1Tor (C) WC V. cholerae classical		(C)	Primaquine
(A) Polio virus (B) Yellow fever (C) Chicken pox (D) Japanese B encephalitis  193. Newer Hendra and Nipah virus-vaccine is (A) Live vaccine (B) Killed vaccine (C) Subunit vaccine (D) Toxoid  194. Live attenuated vaccine using oka strain is available for (A) Rabies virus (C) Varicella zoster virus (C) Polio V (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine? (C) Dukoral (B) WC V. cholerae E1Tor (C) WC V. cholerae classical		(D)	Piperaquine
(A) Polio virus (B) Yellow fever (C) Chicken pox (D) Japanese B encephalitis  193. Newer Hendra and Nipah virus-vaccine is (A) Live vaccine (B) Killed vaccine (C) Subunit vaccine (D) Toxoid  194. Live attenuated vaccine using oka strain is available for (A) Rabies virus (C) Varicella zoster virus (C) Polio V (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine? (C) Dukoral (B) WC V. cholerae E1Tor (C) WC V. cholerae classical			
(B) Yellow fever (C) Chicken pox (D) Japanese B encephalitis  193. Newer Hendra and Nipah virus-vaccine is (A) Live vaccine (B) Killed vaccine (C) Subunit vaccine (D) Toxoid  194. Live attenuated vaccine using oka strain is available for (A) Rabies virus (C) Varicella zoster virus (C) Polio V (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine? (C) Dukoral (B) WC V. cholerae E1Tor (C) WC V. cholerae classical	192.	Both	live attenuated and killed vaccine is NOT available for which of the following?
(D) Japanese B encephalitis  193. Newer Hendra and Nipah virus-vaccine is  (A) Live vaccine (B) Killed vaccine (C) Subunit vaccine using oka strain is available for (A) Rabies virus (C) Polio V (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine? (C) Dukoral (B) WC V. cholerae E1Tor (C) WC V. cholerae classical		(A)	Polio virus
(D) Japanese B encephalitis  193. Newer Hendra and Nipah virus-vaccine is  (A) Live vaccine (B) Killed vaccine (C) Subunit vaccine (D) Toxoid  194. Live attenuated vaccine using oka strain is available for (A) Rabies virus (B) Varicella zoster virus (C) Polio V (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine? (C) Dukoral (B) WC V. cholerae E1Tor (C) WC V. cholerae classical		(B)	Yellow fever
193. Newer Hendra and Nipah virus-vaccine is  (A) Live vaccine (B) Killed vaccine (C) Subunit vaccine (D) Toxoid  194. Live attenuated vaccine using oka strain is available for (A) Rabies virus (C) Polio V (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine? (C) Dukoral (B) WC V. cholerae E1Tor (C) WC V. cholerae classical		$\mathcal{L}_{0}$	Chicken pox
(A) Live vaccine (B) Killed vaccine (D) Toxoid  194. Live attenuated vaccine using oka strain is available for (A) Rabies virus (C) Polio V (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine? (C) Dukoral (B) WC V. cholerae E1Tor (C) WC V. cholerae classical		(D)	Japanese B encephalitis
(A) Live vaccine (B) Killed vaccine (D) Toxoid  194. Live attenuated vaccine using oka strain is available for (A) Rabies virus (C) Polio V (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine? (C) Dukoral (B) WC V. cholerae E1Tor (C) WC V. cholerae classical			
(A) Live vaccine (B) Killed vaccine (D) Toxoid  194. Live attenuated vaccine using oka strain is available for (A) Rabies virus (C) Polio V (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine? (C) Dukoral (B) WC V. cholerae E1Tor (C) WC V. cholerae classical	<b>19</b> 3.	Newe	er Hendra and Nipah virus-vaccine is
Subunit vaccine (D) Toxoid  194. Live attenuated vaccine using oka strain is available for  (A) Rabies virus  Varicella zoster virus  (C) Polio V  (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine?  Dukoral  (B) WC V. cholerae E1Tor  (C) WC V. cholerae classical	¥	100	
194. Live attenuated vaccine using oka strain is available for  (A) Rabies virus  Varicella zoster virus  (C) Polio V  (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine?  Dukoral  (B) WC V. cholerae E1Tor  (C) WC V. cholerae classical			
(A) Rabies virus Varicella zoster virus (C) Polio V (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine? Dukoral (B) WC V. cholerae E1Tor (C) WC V. cholerae classical	4.2		
(A) Rabies virus Varicella zoster virus (C) Polio V (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine? Dukoral (B) WC V. cholerae E1Tor (C) WC V. cholerae classical	194.	Live	attenuated vaccine using oka strain is available for
Varicella zoster virus  (C) Polio V  (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine?  (A) Dukoral  (B) WC V. cholerae E1Tor  (C) WC V. cholerae classical			
(C) Polio V (D) Yellow fever V  195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine?  Dukoral (B) WC V. cholerae E1Tor (C) WC V. cholerae classical			
<ul> <li>(D) Yellow fever V</li> <li>195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine?</li> <li>(A) Dukoral</li> <li>(B) WC V. cholerae E1Tor</li> <li>(C) WC V. cholerae classical</li> </ul>		(C)	
195. Which one of the following is a whole-cell recombinant B subunit cholera vaccine?  Dukoral  (B) WC V. cholerae E1Tor  (C) WC V. cholerae classical			
Dukoral  (B) WC V. cholerae E1Tor  (C) WC V. cholerae classical		(-)	
Dukoral  (B) WC V. cholerae E1Tor  (C) WC V. cholerae classical	105	Whia	h one of the following is a whole cell manualizate D. L. it. l. l
(B) WC V. cholerae E1Tor (C) WC V. cholerae classical	100.		
(C) WC V. cholerae classical		(P)	
(D) WC v. cholerae inaba			
		(D)	WC v. cholerae inaba

DJMB/19

18			
196.	In wl	which method, an absorbent ship with a know	own gradient of antibiotic concentration along
	its le	ength is used for antibiotic sensitivity testi	ng?
	(A)	Kirby Baner disc diffusion method	
	(3)	Epsilometer test	
	(C)	Primary disc diffusion test	
	(D)	Agar dilution method	
197.	The j	percentage of removal of the Biochemical	oxygen demand (BOD) of sewage in primary
	treat	tment	
or Sp	(A)	5-10% (F	3) 10 – 15%
	4	25 – 35% (I	O) 20 – 25%
1			
198.	All of	of the following diseases are transmitted by	y mosquito except :
	(A)	Japanese encephalitis	
	(B)	Yellow fever	
	(C)	West Nile fever	
		Oroya fever	
199.	How	many pairs of amplification primers are u	sed in nested PCR
	(A)	One	Two
	(C)	Three (I	O) Five
	26 T Tg		

200. What should be the minimum distance (center to center) between two adjacent antimicrobial disks on the Mueller – Hinton agar plate?

(A) 5 mm

(B) 10 mm

(c) 20 mm

(D) 30 mm