SEAL

Sl. No.:

Register
Number

# 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

- 1. 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:

 $A \bullet C D$ 

- 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.

6. Which of the following microorganism possess metachromatic granules?

- (A) Bacillus Anthracis
- (B) Bordetella Pertussis
- Gardnerella Vaginalis
  - (D) Proteus Mirabilis

Ø

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7.	Gran	n negative bacilli may be co	ultured using		
15 116	1	MacConkéy's medium			
	(B)	Blood agar media			
	4				
	(C)	Bile salt agar media			
8348 E	(D)	Nutrient agar media			
8.	Whic	ch of the following test dete	cts the production	of acetoin?	
					4 250
	(A)	MR test	<b>~</b>	VP test	
	(C)	Indole test	(D)	Citrate test	
9.	Tran	sfer of genetic information	through free or n	aked DNA is called	
	(A)	Conjugation			
	B	Transformation			
	(C)	Transduction			
	(D)	Lysogenic conversion			
	(2)	2) sogome con ordina			
	X.				
10.	Whic	ch of the following is a nons	ense codon?		
	(A)	UAA	(B)	AAG	
	(C)	GAU	(D)	CGA	
10	- X 1				
11.	The l	ALA allele associated with	good Pastuer's sy	ndrome is	
	<b>(</b> )	DR-2	(B)	DR-3	
	(C)	DR-4	(D)	DR-3/DR-4	

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12.	Whic	h of the following HLA types is associ	ated wi	th rheumatoid arthritis?
	(A)	HLA-B27	<b>(B)</b>	HLA-DR4
	(C)	HLA-A1	(D)	HLA-DP
<b>9</b> 7				
13.	Whic	ch of the following HLA types is associ	ated wi	th Ankylosing spondytitis?
	A	HLA-B27	(B)	HLA-DR4
	(C)	HLA-DD	(D)	HLA-A1
14.	All tl	he following are examples of T-cell sul	popula	ation except
	$\langle A \rangle$	Plasma cells	(B)	TH1 cell
	(C)	CD <sub>4</sub> T helper cell	(D)	Cytotoxic Tlymphocyte
2	4,			
15.	The a	animal used for monoclonal antibodies	s produc	ction is
	-A)	mouse	(B)	guinea pig
	(C)	rabbit	(D)	rat
		1		
16.	Phac	o anaphylaxis is caused by	10	
	(A)	Autoimmune response to uvea		
	(B)	Autoimmune response to retinal tis	sue	
	(C)	Autoimmune response to iris		
	S)	Autoimmune response to lens prote	in	
			•	
17.	The	technique used for monoclonal antibod	dies pro	duction is called
	1	Hybridoma	(B)	Rosette formation
	(C)	Opsonisation	(D)	Immunofluorescence
	200			
18.	The	following human diseases are associa	ted with	super antigens except
	(A)	Tuberculosis	(B)	AIDS
	(C)	Rabies	(2)	Dengue
			0 8	9 90 1

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- 19. Which of the following Immunoglobulins is heat labile?
  - · (A) IgG

(B) IgM

(C) IgA

- (6) IgE
- 20. Which immunoglobulin class is the most efficient to produce agglutination reaction?
  - (A) IgG

) IgM

(C) IgA

- (D) IgE
- 21. Which of the following tests does not use complement?
  - (A) T.Pallidum immobilization test
  - (B) Sabiu-Feldman dye test
  - (C) Vibriccidal antibody test
  - Weit felix test
- 22. The following enzymes are used in ELISA except
  - (A) Horse Radish Peroxidase
  - (B)  $\beta$ -Galactosidase
  - (C) Alkaline phosphatase
  - Acid phosphatase
- 23. Lepromin test is an example of
  - (A) Type I hypersensitivity reaction
  - (B) Type II hypersensitivity reaction
  - (C) Type III hypersensitivity reaction
  - Type IV hypersensitivity reaction

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(D)

Staphylococcus saprophyticus

35.	Sens	itivity tests for Mycobacterium tuber EPT	culosis	are carried out by the following	method
	(A)	Absolute concentration method			
	(B)	Resistance Ratio method			
	(C)	Proportion method	a - e		
		Ratio comparative method			
36.	Prov	idencia shrartii is sensitive to one of t	he follo	wing disinfectant	
	S	Glutaraldehyde	(B)	Cetrimide	
	(C)	Chlorhexidine	(D)	Silver sulphonamide	4
			- 180		
37.	PI E	Γ medium for Bacillus anthracis conta	ins all	EXCEPT	
,,,	(A)	Polymyxin	(B)	Lysozyme	
		Lysostaphin	(D)	Thallus Acetate	
	(1)	Lysostapiini			
	G1 :	11 1 m	A		
38.	Shige	ella dysentriae Type I is	(D)	C + 1	
	<b>(X)</b>	Catalase Negative	(B)	Catalase positive	
	(C)	Indole positive	(D)	Oxidase positive	
le je					
39.	All a	re true about pneumonic plague EXCI	EPT		
	(A)	Spread by droplet infection			
	(B)	Cause Haemorrhagic pneumonia			
	(C)	Highly infections			
	T)	It is not fatal			7.7
40.	True	about Francisella tularensis			
	(A)	Non motile gram positive bacillus			
	0	Infection of Reticuloendothelial syst	em		
	(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		Staphylococus aureus
			*	
42.	Anto	n test is done to diagnose		
	S	Listeriosis	(B)	Melioidosis
,	(C)	Sarcoidoins .	(D)	Erysipeloid
			e w 11	
43.	Caus	ative 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, exc	ept	
	(A)	Liver	(8)	Heart
	(C)	Lymphnode	(D)	Spleen
45.	Caus	ative agent of Oriental sore is		
	(A)	L.Donovani	(B)	L.Braziliensis
	6	L.Tropica	(D)	T.Cruzi
	W			
46.	Mult	iplication of the T.cruzi parasite occurs	s only a	t
	(A)	Trypomastigote form	(6)	Amastigote form
	(C)	Epimastigote form	(D)	Metacyclic form

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41.	reim	imai-opined eggs are character	isolo of		
	10	S. haematobium	(B)	S. mansoni	
	(C)	S. japonicum	(D)	S. intercalatum	
48.	A par	rasite attacking an unusual hos	t is called as,		
	(A)	Aberrant parasite	6	Accidental parasite	
	(C).	Temporary parasite	(D)	Wandering parasite	
	Ę.,				
49.	The f	following microfilaria are presen	t both in Blo	od and Skin,	
,	(A)	Mf. Volvulus	<b>(B)</b>	Mf. Ozzardi	3 3
	(C)	Mf. Streptocerca	(D)	Mf. Timori	
	4				
50.	Whic	h one of the following is the larg	gest intestina	l nematode?	
30.	(A)	T. Spiralis	(B)	S. Stercoralis	
	1	D. Medinensis	(D)	T. Trichiura	
· ·					
51.	The	erm 'Rat lungworm' is associate	ed with		
J1.	(A)	Trichinella spiralis	(B)	Toxocara canis	
	(C)	Toxocara cati		Angiostrongylus cantonen	ısis
	(0)	Toxocara carr			
<b>50</b>	TT - 1. :	tot of Maishania taishiana ia			
<b>52</b> .		tat of Trichuris trichiura is  Duodenum	(B)	Jejunum	
	(A) (C)	Ileum	(15)	Caecum	
	(C)	Heum		Oddodini	
	m	(O. d.) Phobodic accordant			
53.	The	term 'Cat liver Fluke' is associat	tea with		
	(T)	Opisthorchis felineus			
	(B)	Paragoninus westermani			*
	(C)	Clonorchis Sinensis			

(D)

F. hepatica.

54. Which one of the following is called Dog tapeworm?			m?	
	(A)	D. latum	(B)	H. diminuta
	(C)	T. saginata	100	E. granulosus
<b>55</b> .	Cysti	icercoid Larvae development is seen in	the li	fe cycle of
	(A)	T. saginata	(B)	T. solium
	VO	H. nana	(D)	Multiceps
56.	Virio	d is the		
	(A)	DNA virus		
	(B)	enveloped DNA virus	N.	
	10	naked small ssRNA without capsid		
	(D)	enveloped RNA virus		
- 10				
<b>57</b> .	Deng	que virus belong to the family		
	VI	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 associ	ated w	vith
	(A)	Herpes simplex virus		
	(B)	Hepatitis B		
	(C)	Hepatitis A		
	10	Corona virus		
We a				

•		요즘 마다 그가 그게 그렇게 살았다면 그 그 그 그리고 그 그 사이를 하는데 그리고 그리고 있다.
Previo	us Year	Question Paper GPAT Drug Inspector Pharmacist DCO visit https://thepharmapedia.com/
60.	Cow	dry 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	ch of the following viral infection? Produces Negri bodies?
	(A)	Ebola virus (B) Corona virus
	16	Rabies virus (D) Adeno virus
62.	Tbili	si phage typing is employed for typing
	(A)	Staphylococcus aureus
	6	Brucella
	(C)	Streptococcus viridans
	(D)	Salmonella
63.	Antiv	viral drug Acyclovir and Penciclovir inhibit enzyme
	(A)	Viral RNA polymerase
4	10)	Viral DNA polymerase
	(C)	Viral reverse transcriptase
	(D)	None of the above
64.	Inter	feron production not induced by viruses is
	(1)	Gamma interferon
	<b>(B)</b>	Alpha and gamma interferon
	(C)	Beta interferon
100	·(D)	Alpha interferons

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(C)

Sixth Disease

8

Seventh Disease

Previo	us Year	r Question Paper GPAT Drug Inspector Pharmacist DCO visit https://thepharmapedia.com/
71.	Нера	atitis virus not transmitted by blood and blood products is
	(A)	Hepatitis B (B) Hepatitis C
	(C)	Hepatitis G Hepatitis E
72.	One	of the following statements is false about Kyasanur Forest Disease
	(A)	It is a Tick borne haemorrhagic fever
	(B)	Principal vector is Haemaphysalis spinigera
	(C)	It is antigenically related to RSSE complex
	25)	Pigs out as amplifier host
73.	Whic	th is the first human disease identified to be associated with a virus?
1	(A)	Dengue
	(B)	Chihungunya
	(C)	Erythema infectiosum
	(0)	Yellow fever
74.	Whic	ch of the following viral diseases does not result in haemorrhagic fever?
74.	Wille	Louping ill (B) Ebola
	(C)	Lassa fever (D) Yellow fever
	(0)	Dassa level
		CATEGO
<b>75</b> .		th of the following is NOT a characteristic feature of AIDS?
	(A)	Polyclonal B cell activation
	(C)	Hypogamma globulinemia
	(C)	Hypergamma globulinemia
	(D)	Lymphonemia
76.		opithecus aethiops is the source of
	(A)	HIV-1 virus
	<b>(5)</b>	HIV-2 virus
	(C)	Simian immunodeficiency virus
	(D)	Feline T Lymphotrophic virus

### Previous Year Question Paper GPAT Drug Inspector Pharmacist DCO visit https://thepharmapedia.com/ Dimorphic fungi grow as yeast forms at the following temperature 77. 25°C (B) 30°C 37°C 14°C (D) Ochratoxins producing fungal species are all except 78. Aspergillus ochraceus Aspergillus niger (A) (B) Fusarium moniliforme Penicillium verrucosum The largest phylum of kingdom fungi is 79. Ascomycota (B) Basidiomycota Deuteromycota Zygomycota (C) (D) 80. The term 'fungus ball' is synonymous with (A) Aspergillus asthma Invasive aspergillosis (B) Aspergilloma Broncho pulmonary aspergillosis All of the following fungi are anthropophilic dermatophytes except 81. Trichophyton rubrum (A) (B) Trichophyton violaceum Trichophyton verrucosum Microsporun audouinii (D) Which of the following genus of dermatophytes does not infect nails Trichophyton rubrum (A)

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(C)

(D)

Microsporum

Epidermophyton

Trichophyton mentagrophytes

Job notification

Aspergillus fumigatus  (B) Aspergillus flavus.  (C) Aspergillus terreus  (D) Aspergillus versicolor  84. Intestinal candidiasis presenting as diarrhoea is a frequent sequel to  (A) Diabetes (B) Oral antibiotic Therapy  (C) Corneal infection (D) Surgery  85. Coral red Fluorescence seen under wood lamp.  (A) Malassezia Furfur  (B) 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 (B) Cryptococcus  (C) Chromoblastomycosis (D) Aspergillus  87. Acute brucellosis is also known as  (A) Aluoxic fever (B) Filarial fever  (C) Enteric fever (D) Undulant fever	83.	Most	t commonly causative species of	CNS Asperg	illosis.	
(C) Aspergillus terreus (D) Aspergillus versicolor  84. Intestinal candidiasis presenting as diarrhoea is a frequent sequel to (A) Diabetes (B) Oral antibiotic Therapy (C) Corneal infection (D) Surgery  85. Coral red Fluorescence seen under wood lamp. (A) Malassezia Furfur (B) 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 (C) Chromoblastomycosis (D) Aspergillus  87. Acute brucellosis is also known as (A) Aluoxic fever (B) Filarial fever		(A)	Aspergillus fumigatus			
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(A) Aluoxic fever (B) Filarial fever		8				
	87.	Acute	e brucellosis is also known as			
(C) Enteric fever Undulant fever		(A)	Aluoxic fever	(B)	Filarial fever	
		(C)	Enteric fever		Undulant fever	
	, .					

88.	All a	are 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 1g/r	
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.	Whi	ch of the following comes under upper UTI?
	(A)	Cystitis (B) Prostatitis
	S	Pyelitis (D) Urethritis
91.	Most	common cause of Bronchiolitis
	(Á)	Rhinoviruses
	(B)	Influenza viruses
	(C)	Corona viruses
	10)	Respiratory Syncytial viruses
92.	Biocl	nemical analysis of Tubercular Meningitis reveals all of the following except
	(A)	CSF pressure Moderately elevated
	(B)	CSF protein: Markedly increased
	VOS	CSF glucose: Slightly increased
	(D)	Call count : Increased, lymphocytic
93.	How	does staphylococcus aurens acquire during resistance?
	(A)	Transformation Transduction
	(C)	Mutation (D) Conjugation
	(0,	

18

B

- 94. The mechanism of action of Fluoroquinolone against bacteria is
  - (A) Inhibition of RNA synthesis
  - (B) Inhibition of DNA synthesis
  - (C) Inhibition of cell wall synthesis
  - (D) Inhibition of translation
- 95. Under the Bush Jacoby Medeioros Functional classification scheme for β lactamase enzyme carbaperamase comes under section
  - (A) 1

(B) 2e

**(**) 2f

- (D) 2a
- 96. The following viruses are emerging zoonotic viruses EXCEPT
  - (A) Lassa

(B) Hantavirus

(C) Marburg

- Calcivirus
- 97. Minimum inhibitory concentration of vamomycin to VRSA,
  - A) > 8 μg/ml

(B)  $> 4 \mu g/ml$ 

(C)  $> 2 \mu g/ml$ 

- (D)  $> 1 \,\mu\text{g/ml}$
- 98. How many maximum antimicrobial disks should be placed on a 100 mm Mueller Hinton agar plate?
  - (A) upto 5 disks
  - (6) upto 6 disks
  - (C) upto 7 disks
  - (D) upto 8 disks

(A) Transmission Electron Microscope (TEM)

Scanning Electron Microscope (SEM)

Phase Contrast Microscope (C)

Darkfield Microscope (D)

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Ø

Peptidoglycan layer of cell wall is thicker in 106. (A) Fungi (B) Parasites Gram positive bacteria (D) Gram Negative bacteria 107. Which of the following can be visualized by routine gram staining? (A) Chlamydia trachomatis Actinomycetes naeslundii Rickettesiae (C) (D) Treponema pallidum 108. Nocardia species are stained by strong carbolfuchsin and resist decolorisation with 0.5% Sulphuric acid 1% Perchloric acid (B) 2% Activated carbon 0.5% Acetic acid (D) The bacteria which require higher level of carbon dioxide for their growth are known as 109. Micro aerophilic bacteria (A) Aerophilic bacteria (B)(C) Aerobic bacteria Capnophilic bacteria Bacteria which can grow at temperature between 25°C and 40°C are known as 110. Mesophiles (B) Thermophiles Psychrophiles Microthermophiles (D) Streptococcus pyogenes are 111. Obligate anaerobe (A) Obligate aerobe Facultative anaerobe Aerotolerant anaerobe (C)

	2.0		
112.	Secretory	IOA	contains
114.	Decretory	1611	COHUMINO

- (A) Polypeptide
- Glycine-rich polypeptide
- (C) Polysaccharide
- (D) Glycine rich polysaccharide

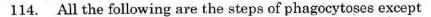
#### 113. All the following are tumour suppressor genes EXCEPT

(A) APC

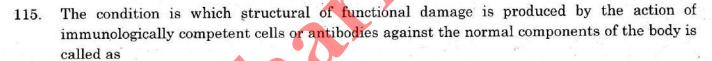
(B) NF-1

(C) NF-2

(b) erb-B



- (A) Recognition
- (B) Antigen Presentation
- (C) Engulfment
- (D) Fusion



(A) Acquired immunity

(B) Adaptive immunity

Auto immunity

(D) Innate immunity

#### 116. Ouchterlony procedure is

- (A) Single diffusion in one dimension
- (B) Double diffusions in one dimension
- (C) Single diffusion in two dimensions
- Double diffusions in two dimensions

#### 117. Vaccination induces

- (A) Active natural immunity
- (B) Passive natural immunity
- Active artificial immunity
- (D) Passive artificial immunity

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Which immunoglobulin class can pass through placenta?

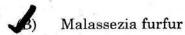


**IgM** (B)

(C) , IgA

(D)  $_{
m IgE}$ 

- Example of a fungal super antigen is 119.
  - Candida albicans (A)



- (C) Aspergillus
- (D) Cryptococcus capsule
- First component of complement which binds to antigen-antibody complex in classical 120. pathway is



(B)

Cls (C)

C3 (D)

Which is the earliest immunoglobulin to be synthesised by the foetus? 121.

(A) IgG **IgM** 

(C) IgA (D) **IgE** 

Which component of complement is present in the highest concentration in the serum? 122.

(A) C1 (B)

C3

(D) C<sub>5</sub>

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123.		hich disease (KNP)	antige	ens SS-A (RO) and SS-B (La) are produced
	$\langle A \rangle$	Sjogren syndrome	(B)	Systemic sclerosis
	(C)	Multiple sclerosis	(D)	Systemic Lupus Erythematous (SLE)
124.	Whic	ch class of immunoglobulin mediates Ty	pe I h	hypersensitivity reactions?
	(A)	Ig G	(B)	Ig M
	(C)	Ig A	S	Ig E
125.		antibodies bind to basement membra is the hallmark of	ne an	tigens on kidney glomeruli and the alveoli
	<b>(</b> 1)	Good Pasture syndrome	(B)	Myasthenia gravis
	(C)	Grave's disease	(D)_	Hashimoto's thyroiditis
126.	Anti	Citrullinated peptid Antibodies (ACPA	) are	diagnostic for
	(A)	Systemic Lupus erythmatous	<b>B</b> )	Rhumatoid arthritis
	(C)	Sjogren syndrome	(D)	Scleroderma
		a say to ended a fire of		
127.	The	ability to respond immunologically to a	n anti	gen is conditioned by
. 3	(A)	Tumor suppressor	1	Immune response genes
	(C)	Allogene	(D)	Histocompatibility gene
128.	Whic	ch of the following HLA typing given hi	gh res	olution matching?
	(A)	Microcytotoxicity		
	(B)	Mixed lymphocyte reaction		
10 m	(C)	PCR - RELP (Restriction Fragment I	ength	n Polymor Phism)
	VD)	PCR - DNA sequencing typing		
1 5				
129.	Best	example of syngeneic graft	1. 2.	
	(A)	Between dizygotic twins		
E 780	8	Between monozygotic twins	.00	
	(C)	Between two member of same or diffe	erent s	species
	(D)	Between two sites of same person		

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130.		etive media for N. gonorohea is	Thaimacist Boo visit neeps, 7 thepharmapearas
	1	Thayer Martin medium	
	(B)	Cooked meet medium	
	(C)	Blood agar	
	(D)	Serum agar	
131.	Wood	l sorter's disease is also known as	
	(A)	Cutaneous anthrax	
	<b>(B)</b>	Pulmonary anthrax	
	(C)	Intestinal anthrax	
	(D)	Pulmonary tuberculosis	
132.	Liqui	d medium for tubercle bacilli is	
	(1)	Middle book 7H9	(B) Middle book 7H8
	(C)	Middle book 7H10	(D) LI medium
133.	Vero	cytotoxin 1 of E. Coli is similar to	
	(4)	Shiga toxin	
	(B)	Cholera toxin	
	(C)	Enterotoxin of S. aureus	
	(D)	Toxin of B. Cereus	

134. Which of the following salmonella ferments glucose with acid but no gas

- (A) S. Paratyphi A
- (B) S. Paratyphi B
- (C) S. Choleraesuis
- S. Typhi

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- 135. Clinical manifestations of enterococci are all except
  - (A) Urinary tract infections
  - (B) Neonatal sepsis
  - (C) Neonatal meningitis
  - Neonatal conjunctivitis
- 136. Which is not a risk factor for meningococcus infection
  - (A) Travellers
  - (B) Smoking
  - (C) Over crowding
  - Defficiency of Early complement components
- 137. Water house Friderichsen syndrome, All are true EXCEPT
  - (A) Caused by meningococcus
  - (B) Bilateral adrenal haemorrhage seen
  - (C) Purpura fulminans is a feature
  - Pathogenesis is due to capsule
- 138. Corynebacterium parvum can be used as
  - (A) Vaccine
  - (Immunomodulator
  - (C) Toxin production
  - (D) Adjuvant
- 139. Wool sorter's disease is a
  - (A) Cutaneous anthrax
  - (B) Intestinal anthrax
  - (C) Anthrax meningitis
  - Pulmonary anthrax

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#### Brazilian purpuric fever caused by 140. Haemophilus aegyphius Haemophilus aphnophilus (A) Coxiella burnetii Rickettsia prowazekii (C) Transport media used for isolation of vibro cholerae from stool specimen are all EXCEPT 141. (A) Alkaline salt medium (B) Autoclaved sea water Stuarts medium (C) Cary Blair medium Oxidase Negative Pseudomonas species is 142. Pseudomonas paucimobilis (A) Pseudomonas oxyzihabitans (B) Pseudomonas aeruginosa Pseudomonas luteola (C) Most common mode of transmission of Legionella Pneumophila is Inhalation (B) Ingestion Blood. (D) Insect bite (C) Q fever caused by 144. Coxiella burnetii Rickettsia conori (A) Borbonella (C) Rickettsia prowazeki (D) Miyagawa granulocorpusles are seen in 145. Trachoma Lymphogranuloma venereum (C) Syphilis Psittacosis (D) Which is not a property of Mycoplasma? 146. Susceptibility to Beta lactams Have both DNA and RNA (B) Can grow in cell free media (C) (D) Extracellular survival

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147.	Vect	or for African Trypanosomiasis	16 15	
	(A)	Sand fly	1	Tsetse fly
	(C)	Mosquito	(D)	Tick
148.	Chro	onic amoebic keratitis (CAK) is a compl	ication	ı of
	(A)	N.Fowleri		A.Castellani
	.(C)	B.Mandrillaris	(D)	E.Histolytica
16				
149.	Extra	a intestinal phase of taxoplasma gondi	i is see	n in all, except
	(A)	Man		Cat
	(C)	Mouse	(D)	Cow
	21			
150.	Pern	icious malaria is caused by,		
3.5	(A)	P. Vivax	(B)	P. Ovale
	V	P. Falliparum	(D)	P. Malariae
151.	Mau	rer's dots are present in the infected R	BC of,	
	(A)	P.Vivax	6	P. Falciparum
	(C)	P. Malariae	(D)	P. Ovale
152.	Float	ation of eggs is characteristics of the fo	ollowin	g organisms EXCEPT
	(A)	A. lumbricoides		
	(B)	Trichuris trichiura		
	1	T. Saginata		
	(D)	A. duodenale		

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- 153. The Distome of China is refers to
  - A) Clonorchis Sinensis

(B) F. hepatica

(C) F. buski

(D) S. japonicum

- 154. Causative agent of Bilharziasis
  - 1
- S. haematobium

(B) S. mansoni

(C) S. japonicum

- (D) S. intercalatum
- 155. Dipylidium Caninum is known as
  - (A) Rat tape worm



Double - pored dog tape worm

- (C) Gid worm
- (D) Beef tapeworm
- 156. All of the following are Liver Flukes, except
  - (A) C. Sinensis

(B) O. Felineus

(C) F. Hepatica

- (0)
- G. Hominis
- 157. The phrase 'Serpent worm' is associated with
  - (A) Loa loa
  - (B) Onchocerca Volvulus
  - Dracunculus Medineusis
  - (D) Dirofilaria immitis

DJMB/19

158.	158. Which of the following is the smallest virus?			
	(A)	Papo virus	<b>(B)</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		
	31.			
160.	In eg	g inoculation, yolk sac route is used to		
	1	Cultivate arbo viruses		
	(B)	Cultivate Hepatitis A virus		
	- (C)	Cultivate salmonella bacteria		
	(D)	Cultivate Mycobacterium tuberculosis		
			7-	
161.	In eg	g inoculation, Amniotic sac route is used	l to c	ultivate
	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 is	used	for
. = 5	(A)	Quantification of DNA		Quantification of RNA
2	(C)	Identification of prions	(D)	Detection of Proteins
163.	Whiel	h of the following viruses are called orph	nan y	iruses?
9	(A)	Polio virus	B	Echo virus
	(C)	Coxsackie virus	(D)	Entero virus

- 164. Which of the following vaccine is killed vaccine?
  - (A) Sabin polio vaccine
  - (B) BCG vaccine
  - Salk polio vaccine
    - (D) Sabin and salk polio vaccine
- Type I interferons are 165.
  - Alpha and gamma interferon (A)
  - (B) Beta interferon
  - Alpha and beta interferons
    - (D) Gamma interferon
- **1**166. Virusoids are
  - (A) Animal pathogen
  - (C) Aquatic virus
- Name the filamentous shaped virus 167.
  - (A) Herpes virus
  - (C) Parvo virus

- Ebola virus

Plant pathogen

Human pathogen

- Rabies virus
- Small pox was eradicated in the year 168.
  - 1977

(B) 1978

1967

- (D) 1957
- Which year did WHO announced global eradication of small pox? 169.
  - May 8th 1980

May 18th 1980 (B).

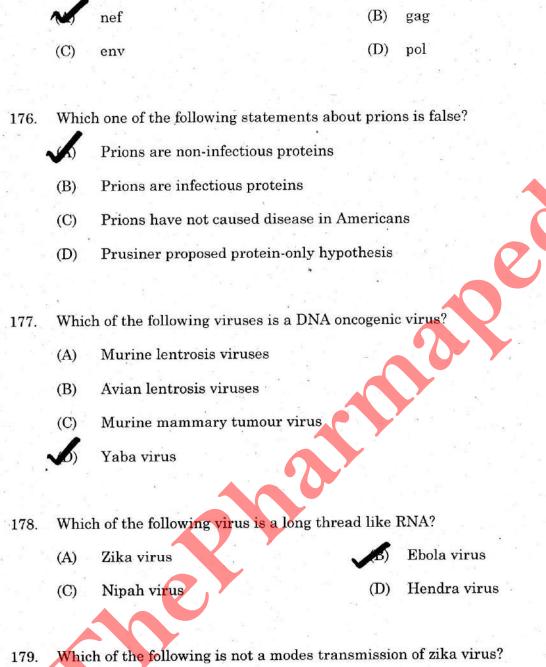
(C) March 18th 1980

May 8th 1981 (D)

170.	THE I	of one wing are the strains of I one with the Except.
	(A)	Lansing and MEFI strain
A T	(B)	Leon and Saukett strain
	1	Dahar strain
	(D)	Mahoney strain
171.	When	n passaged serially in eggs the progeny influenza virus show high haemagglutinin titres
	but lo	ow infectivity which is called as?
	W	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
173.	The	following mumps vaccine are available except
	(A)	Monovalent mumps yaccine
	1	Divalent measles mumps vaccine
	(C)	Trivalent MMR vaccine
	(D)	Quadrivalent MMR-V vaccine
	Y	
174.	Pobi	es is not seen in
174.		
	(A)	India (B) Brazil
	(6)	Australia (D) China

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Which of the following is not a modes transmission of zika virus?

Breastfeeding

(B) Blood transfusion

(C) Perinatal transmission

Sexual transmission

33

(D)

# 180. Black piedra is caused by one of the following fungi (A) Trichosporon species Piedraia hortae (C) Hortaea werneckii Malassezia furfur (D) 181. Which of the following fungi is geophilic dermatophyte? Microsporum gypseum (B) Microsporum equinum (C) Microsporum persicolor (D) Microsporum canis 182. White piedra is caused by one of the following fungi? (A) Malassezia furfur Hortaea werneckii (B) (C) Piedraia hortae Trichosporon species 183. Phialophora verrucosa is a tropical subtropical fungus that causes (A) Maduro mycosis Chromoblastomycosis (C) Sporotrichosis (D) Candidiasis Desert rheumatism is seen in 184: Coccidioidomycosis (B) Paracoccidioidomycosis Histoplasmosis (D) Blastomycosis

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185. According to Durack and street classification, classic Fever of unknown origin (Classic FUO) is defined as the following except Duration of > 1 wks Temperatures of > 38.3°c (A) (C) Duration of > 3 wks Three outpatient visits Post operative endocarditis is due to 186. Staphylococcal epidermidis Staphy lococcus aureus (B) (C) Streptococcus pyogenes (D) Streptococcus viridans A patient in an ICU is on a CVP line. His blood culture shows growth of gram positive Cocci 187. which is catalaes positive and coagulase negative. The most likely etiological agent. (A) Staphylococcus aureus Staphylococcus epidermidis (C) Streptococcus Pyogenes Enterococcus faecalis 188. Hand rub should not be used in which condition. (A) Before touching patient After touching patient (B) Hands are visibly soiled After touching patient's surrounding (D)

Pseudobubo is present in 189.

> (A) LGV

Suphilis

(C) Chancroid Donovanosis

190. TORCH infection include all except

> Toxoplasmosis (A)

Orthomyxoviruses

(C) Rubella Herpes

(D)

WC V. cholerae inaba

Job notification

- 196. In which method, an absorbent ship with a known gradient of antibiotic concentration along its length is used for antibiotic sensitivity testing?
  - (A) Kirby Baner disc diffusion method
  - B) Epsilometer test
    - (C) Primary disc diffusion test
    - (D) Agar dilution method
- 197. The percentage of removal of the Biochemical oxygen demand (BOD) of sewage in primary treatment
  - (A) 5-10%

(B) 10 - 15%

25 - 35%

- (D) 20 25%
- 198. All of the following diseases are transmitted by mosquito except:
  - (A) Japanese encephalitis
  - (B) Yellow fever
  - (C) West Nile fever
  - Oroya fever
- 199. How many pairs of amplification primers are used in nested PCR
  - (A) One

B) Two

(C) Three

- (D) Five
- 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