Previous Year Question Paper GPAT Drug Inspector Pharmacist DCO

 DJMB/19

 Register

 Number

2019

M.D. MICROBIOLOGY (PG Degree Std.)

Time Allowed : 3 Hours]

Sl. No. :

[Maximum Marks: 300

SEAL

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:

- 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. <u>After the examination is concluded</u>, you must hand over your Answer Sheet to the <u>Invigilator</u>. 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.

		st Pharma Private/ Govt. Job updates Download / NIPER Papers Pharma News Updates D. Pharm Visit: https:/pl		cy College Informations Pharma Ir	-
1.	The s	ide chain theory of antibody prod	luction was	proposed by	$\sim 10^{-1}$
	1	Paul Ehrlich	(B)	Elie Metchnikoff	
	(C)	John Hunter	(D)	Edward Jenner	
2.			effect on con	nmon antibiotic resista	nt bacteria such as
	MRS	A, VRE and Clostridium difficile		10 10 10 10 10 10 10 10 10 10 10 10 10 1	
	(A)	Glutenaldehyde	(B)	Orthophthaldehyde	
Ŋ.,	S	Peracetic acid	(D)	Hypochlorous acid	
3.	The l	biological control for testing dry l	neat efficacy	are spores of nontoxige	nic
	(A)	Bacillus pumilis			
	S.	Clostridium tetani			
	(C)	Bacillus stearothermophilus		ηλς	
	(D)	Clostridium botulivium			
	1.1				
4.	The l	biological control for moist heat s	terilization	are spores of	
	(A)	Bacillus pumilis	(B)	Bacillus subtilis	
	-	Bacillus stearothermophilus	(D)	Bacillus globigi	
5.	The	concentration of sodium hypochlo	orite solution	used to disinfect disca	rd jars is
°C.	(A)	1%	(B)	5%	
	6	2.5%	(D)	10%	a state and a state
					· /*
6.	Whie	ch of the following microorganism	n possess me	tachromatic granules?	
	(A)	Bacillus Anthracis			
	(B)	Bordetella Pertussis			
		Gardnerella Vaginalis	e e		
	(D)	Proteus Mirabilis	- <u>A</u> - 1. v		
	~				

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7. Gram negative bacilli may be cultured using MacConkey's medium (B) Blood agar media (C) Bile salt agar media (D) Nutrient agar media Which of the following test detects the production of acetoin? 8. VP test (A) MR test (C) Indole test Citrate test (D)Transfer of genetic information through free or naked DNA is called 9. (A) Conjugation Transformation Transduction (C) Lysogenic conversion (D) Which of the following is a nonsense codon? 10. UAA (B) AAG (C) GAU (D) CGA The HLA allele associated with good Pastuer's syndrome is 11. DR-2 (B) DR-3 (C) DR-4 DR-3/DR-4 (D)

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12.	Whic	h of the following HLA types is a	ssociated wi	th rheumatoid arthritis?
	(A)	HLA-B27	N (B)	HLA-DR4
	(C)	HLA-A1	. (D)	HLA-DP
13.	Whic	h of the following HLA types is a	ssociated wi	th Ankylosing spondytitis?
	A	HLA-B27	(B)	HLA-DR4
	(C)	HLA-DD	(D)	HLA-A1
-2				
14.	All +1	ne following are examples of T-cel	ll sub popula	ation except
		Plasma cells	(B)	TH1 cell
	(C)	CD_4^+ T helper cell	(D)	Cytotoxic Tlymphocyte
	. (0)		(-)	
	1.			
15.	The a	animal used for monoclonal antib		
	-(A)	mouse	(B)	guinea pig
	(C)	rabbit	(D)	rat
16.	Phac	o anaphylaxis is caused by		
	(A)	Autoimmune response to uvea		
	(B)	Autoimmune response to retina	al tissue	
	(C)	Autoimmune response to iris		
		Autoimmune response to lens p	orotein	
			•	
17.	The	technique used for monoclonal ar	tibodies pro	duction is called
a.	JA)	Hybridoma	(B)	Rosette formation
	(C)	Opsonisation	(D)	Immunofluorescence
	1			
	The	following human diseases are ass	sociated with	n super antigens except
18.		Tuberculosis	(B)	AIDS
18.	(A)			
18.	(A) (C)	Rabies	(D)	Dengue

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IgM

IgE

(D)

- 19. Which of the following Immunoglobulins is heat labile?
 - (A)IgG(B)IgM(C)IgAIgE

20. Which immunoglobulin class is the most efficient to produce agglutination reaction?

- (A) IgG ·
- (C) IgA

21. Which of the following tests does not use complement?

- (A) T.Pallidum immobilization test
- (B) Sabiu-Feldman dye test
- (C) Vibriccidal antibody test
- (D) Weit felix test

22. The following enzymes are used in ELISA except

- (A) Horse Radish Peroxidase
- (B) β -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)

- 24. The genes encoding proteins inhibiting excessive cell proliferation are called
 - (A) Apoptosis genes
 - (C) Proto oncogenes
- 25. Chadiak Higashi syndrome is an immuno deficiency diseases which occurs due to
 - (A) T cell defects
 - (C) Complement disorder

- (B) B
- B cells defects

Allogenes

Diminished phagocytic activity

Tumor suppressor genes

- 26. All of the following are diseases of combine immuno deficiencies except
 - (A) Ataxia telengiectasia (B) Wiskott A
 - (C) Reticular dysgenesis of de vaal
-) Wiskott Aldrich syndrome
- (7) Leukocyte G6PD deficiency

27. The following are the Immunological complications after blood transfusion except

- (A) Allergic reactions
- Human T-Lymphotropic virus infection
- (C) Acute hemolytic reaction
- (D) Transfusion associated acute lung injury
- 28. The following are characteristics of Live Vaccines <u>except</u>
 - (A) Reverting back to virulent form
 - (B) Excretion of vaccine virus and transmission to non-immune contacts
 - (C) Interference by other micro organisms in host
 - gb)

(C)

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High stability at room temperature

- 29. All the following vaccines are to be stored cold but not froyen EXCEPT
 -) Polio

(B) DPT

BCG

(D) Hepatitis B

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- (A) Brucellosis
- (B) Plague
- (C) Tularensis
- **(**)
- Floppy baby syndrome

31. Micrococci are differentiated from staphylococci by

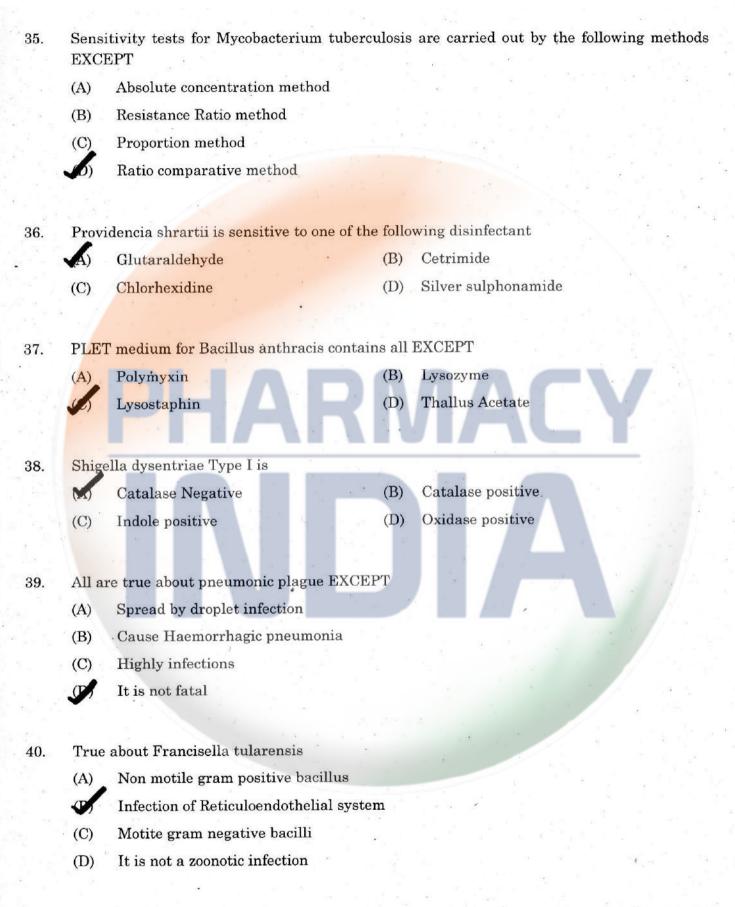
())	Of test	(B)	Oxidase test	
(C)	PYR test	(D)	Motility test	

- 32. Selective medium for streptococci is
 - (A) Milk agar
 - Crystal violet blood agar
 - (C) Mackonkey agar
 - (D) TCBS
- 33. Drug of choice for Vancomycin Resistant Staphylococcus Aureus (VRSA) is
 - (A) Cloxacillin
 - (B) Methiclin
 - (C) Teicoplanin
 - (E) Linezolid

34. Most common organism associated with stitch abscess is

- A) Staphylococcus epidermidis
- (B) Staphylococcus haemolylicus
- (C) Staphylococcus lugdonensis
- (D) Staphylococcus saprophyticus

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(C) Epimastigote form

(D) Metacyclic form

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7.	Term	ninal–Spined eggs are characteristic	e of	
	1	S. haematobium	(B)	S. mansoni
	(C)	S. japonicum	(D)	S. intercalatum
			· · ·	
8.	A par	rasite attacking an unusual host is	called as,	
	(A)	Aberrant parasite	50)	Accidental parasite
	(C)	Temporary parasite	(D)	Wandering parasite
9.	The f	following microfilaria are present bo	oth in Blo	od and Skin,
	(A)	Mf. Volvulus	(15)	Mf. Ozzardi
	(C)	Mf. Streptocerca	(D)	Mf. Timori
0.	Whic	ch one of the following is the largest	intestina	l nematode?
	(A)	T. Spiralis	(B)	S. Stercoralis
	1	D. Medinensis	(D)	T. Trichiura
8	-			
1.	The t	term 'Rat lungworm' is associated w	vith	
1.	(A)	Trichinella spiralis	(B)	Toxocara canis
	(C)	Toxocara cati	100	Angiostrongylus cantonensi
2.	Hahi	tat of Trichuris trichiura is		
.	(A)	Duodenum	· (B)	Jejunum
	(C)	Ileum	100	Caecum
	(-)			
2	The	term 'Cat liver Fluke' is associated	with	and the second second
3.		Opisthorchis felineus		
	(B)	Paragoninus westermani	ti -	
	(D) (C)	Clonorchis Sinensis		ate i
	(C) (D)	F. hepatica.		
	~)			-

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			40 B
(A)	D. latum	(B)	H. diminuta
(C)	T. saginata	100	E. granulosus
Cyst	ticercoid Larvae development is see	en in the lif	fe cycle of
(A)	T. saginata	(B)	T. solium
(0)	H. nana	(D)	Multiceps
Viri	od is the		
(A)	DNA virus		
(B)	enveloped DNA virus	3	
107	naked small ssRNA without cap	sid	
(D)	enveloped RNA virus		
Den	gue virus belong to the family		
un	Flavi viridae	(B)	Filo viridae
(C)	Calci viridae	(D)	Toga viridae
Hun	nan immuno deficiency virus belong	gs to the fa	mily
Hun (A)	nan immuno deficiency virus belong Reo viridae	gs to the fa (B)	mily Bunya viridae
	Reo viridae	(B)	Bunya viridae
(A)	Reo viridae	(B) (D)	Bunya viridae Filo viridae
(A)	Reo viridae Retro viridae	(B) (D)	Bunya viridae Filo viridae
(A) VC) The	Reo viridae Retro viridae term 'Helical Symmetry' virus is as	(B) (D)	Bunya viridae Filo viridae
(A) The (A)	Reo viridae Retro viridae term 'Helical Symmetry' virus is as Herpes simplex virus	(B) (D)	Bunya viridae Filo viridae

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- 60. Cowdry type A inclusion bodies are seen in
 - (A) Mumps virus infection
 - (B) Measles virus infection
 - () Yellow fever virus infection
 - (D) Rabies virus infection

61. Which of the following viral infection? Produces Negri bodies?

(A)	Ebola virus		(B)	Corona virus	
-----	-------------	--	-----	--------------	--

(c) Ra

Rabies virus

- (D) Adeno virus
- 62. Tbilisi phage typing is employed for typing
 - (A) Staphylococcus aureus
 -) Brucella
 - (C) Streptococcus viridans
 - (D) Salmonella

63. Antiviral drug Acyclovir and Penciclovir inhibit enzyme

(A) Viral RNA polymerase



Viral DNA polymerase

- (C) Viral reverse transcriptase
- (D) None of the above
- 64. Interferon production not induced by viruses is
 - (1)
 - Gamma interferon
 - (B) Alpha and gamma interferon
 - (C) Beta interferon
 - (D) Alpha interferons

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- 65. Which of the following serotypes of adenoviruses causes swimming pool conjunctivitis?
 - (A)
 7, 3

 (C)
 13, 7

 (D)
 3, 17

66. The most common mucosal site affected by Herpes simplex virus type 1 is?

- (A) Mucosa lining respiratory tract
- (C) Genital mucosa
- D) Nasal mucosa

Buccal mucosa

- 67. The most common site affected by Herpes Zoster is area innervated by which of the following?
 - (A) Spinal cord segments D₁ to D₃
 - 5) Spinal cord segments D₃ to L₂
 - (C) Spinal cord segments L₃ to L₅
 - (D) Spinal cord segments D_5 to D_7
- 68. A rare form of Herpes Zoster affecting facial nerve causing facial palsy with eruption on tympanic membrane and external auditory canal is known as?
 - (A) Job's syndrome
 - (B) Varicella syndrome
 - (0)

69.

Ramsay Hunt syndrome

(D) Severe Acute Respiratory syndrome

Which of the following refers to benign warts caused by papilloma virus in young children?

- condyloma acuminatum
- (B) verruca vulgaris

(C) verruca plana

- (D) plantar warts
- 70. Erythema infectiosum is also known as
 - (A) Fourth Disease
 - (C) Sixth Disease



Fifth Disease

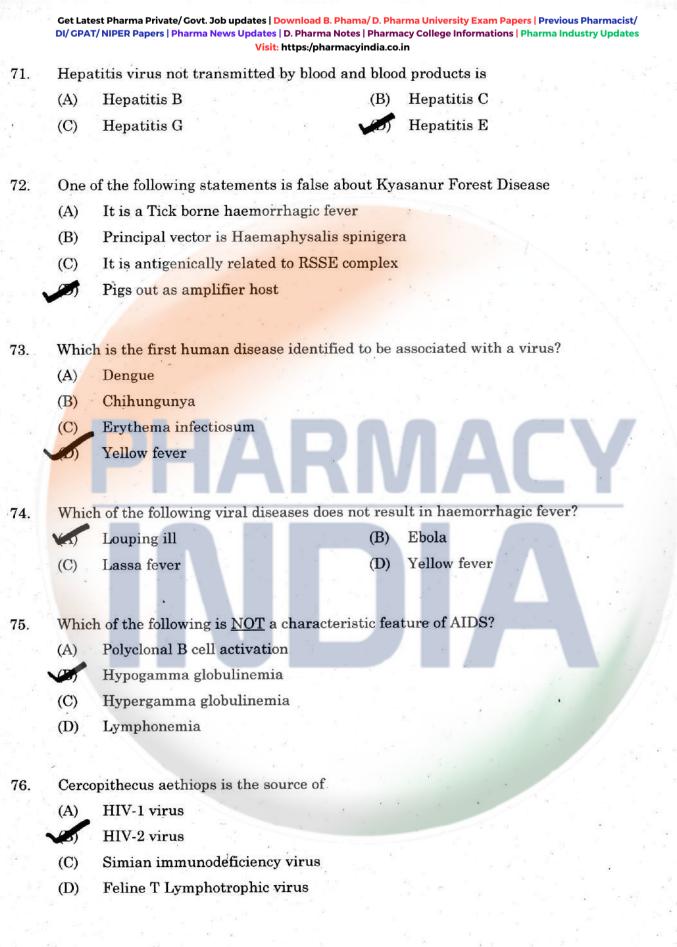
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(D) Seventh Disease

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77.	Dime	orphic fungi grow as yeast forms a	at the follow	ing temperature
	(A)	25°C	(B)	30°C
	10)	37°C	(D)	14°C
	8			
78.	Ochr	atoxins producing fungal species	are all exce	ot
	(A)	Aspergillus ochraceus	(B)	Aspergillus niger
	V	Fusarium moniliforme	(D)	Penicillium verrucosum
5 S				
79.	The	largest phylum of kingdom fungi i	is	
	A	Ascomycota	(B)	Basidiomycota
	(C)	Deuteromycota	(D)	Zygomycota
80.	The	term ' <mark>f</mark> ungus ball' is synonymous	with	
	(A)	Aspergillus asthma	(B)	Invasive aspergillosis
	(0)	Aspergilloma	(D)	Broncho pulmonary aspergillosis
81.	All o	f the following fungi are anthropo	philic derm	atophytes except
	(A)	Trichophyton rubrum		
	(B)	Trichophyton violaceum		a second to the second
	(0)	Trichophyton verrucosum		
	(D)	Trichophyton verrucosum Microsporun audouinii		
	(D)			
82.			tophytes do	es not infect nails
82.		Microsporun audouinii	tophytes do	es not infect nails
82.	• Whic	Microsporun audouinii ch of the following genus of derma	tophytes do	es not infect nails
82.	• Whic	Microsporun audouinii ch of the following genus of derma Trichophyton rubrum	tophytes do	es not infect nails

(D) Trichophyton mentagrophytes

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83. Most commonly causative species of CNS Aspergillosis.

- Aspergillus fumigatus
- Aspergillus flavus. (B)
- Aspergillus terreus (C)
- (D) Aspergillus versicolor

Intestinal candidiasis presenting as diarrhoea is a frequent sequel to 84.

(A) Diabetes

(D) Surgery

(J) Oral antibiotic Therapy

- Corneal infection (C)
- Coral red Fluorescence seen under wood lamp. 85.
 - Malassezia Furfur (A)
 - 3) Corynebacterium minutissimum
 - (C) Microsporum gypseum
 - (D) Trichophyton schoenleinii

50 year old male presents with headache vomiting and neck rigidity. India Ink staining of 86. CSF reveals spherical budding yeast cells with clear halo surrounding. What is the etiological agent?

- (A) Naegleria
- Chromoblastomycosis (C)
- 87. Acute brucellosis is also known as
 - (A) Aluoxic fever
 - (C) Enteric fever

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- Aspergillus (D)
- Filarial fever (B)



Undulant fever

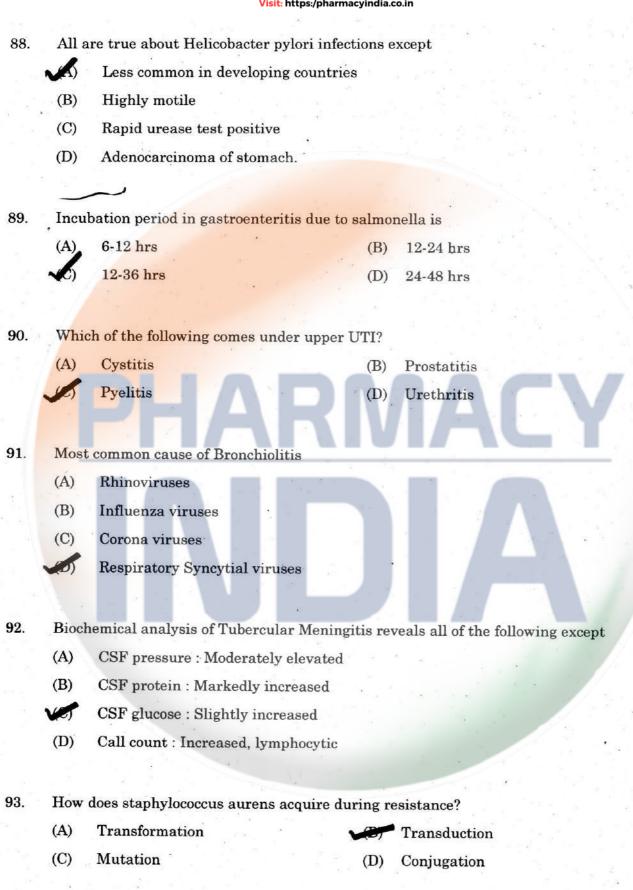
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Cryptococcus





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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

Calcivirus

(A)	1		(B)	2e
50	2f		(D)	2a

- 96. The following viruses are emerging zoonotic viruses EXCEPT
 (A) Lassa
 (B) Hantavirus
 - (C) Marburg
- 97. Minimum inhibitory concentration of vamomycin to VRSA,

	> 8 µg/ml	(B) > 4 μ g/ml
(C)	> 2 µg/ml	(D) > 1 μ g/ml

- 98. How many maximum antimicrobial disks should be placed on a 100 mm Mueller Hinton agar plate?
 - (A) upto 5 disks

) upto 6 disks

- (C) upto 7 disks
- (D) upto 8 disks

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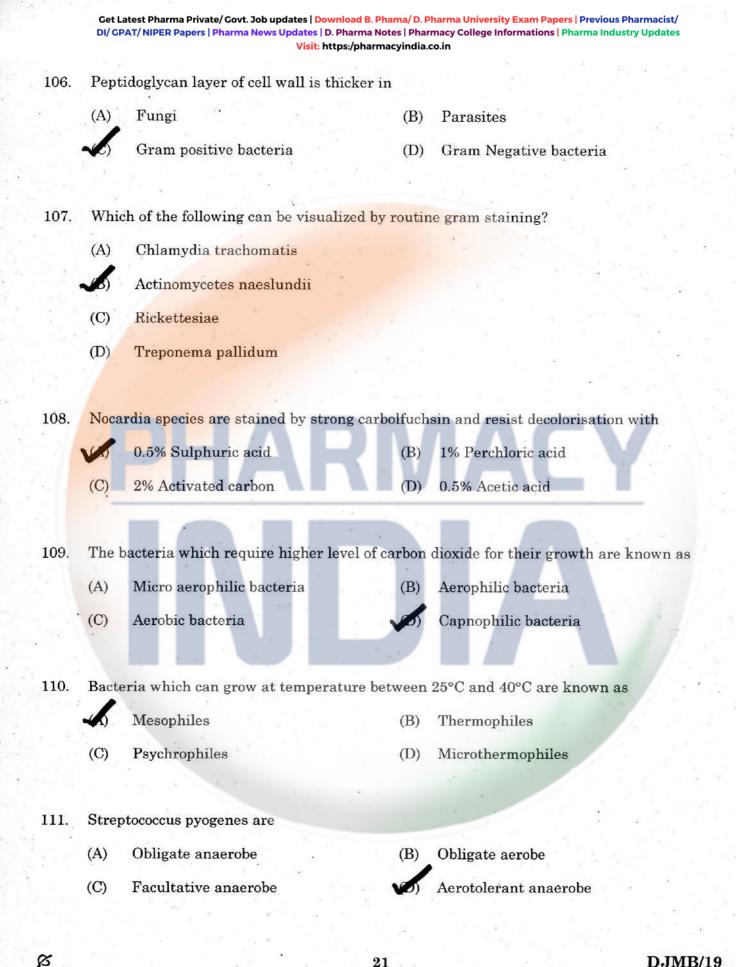
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99.	Whi	ch one of the following is not a "nonsens	e cod	on"?
	(A)	UAA		UGG
	(C).	UAG	(D)	UGA
100.	Anti	sepsis in surgery was first introduced b	y	
	(A)	Joseph Lister	(B)	Edward Jenner
	(C)	Louis Pasteur	(D)	Robert Koch
	×			
101.	'Scha	aeffer-Fulton' procedure is used to stain	and	visualise which bacterial cell organe
	(A)	Bacterial capsule	(B)	Bacterial flagella
	10	Bacterial endospores	(D)	Bacterial cell wall
	17			
-	The			
	Ine	f <mark>oundat</mark> io <mark>ns o</mark> f immuno chemistry was l	aid by	the pioneering work of
102.	1			
102.	-	Karl Landsteiner	(B)	Paul Ehrlich
102.	(C)			
	-	Karl Landsteiner Frank Burnet	(B) (D)	Paul Ehrlich
102.	(C)	Karl Landsteiner Frank Burnet ————————————————————————————————————	(B) (D)	Paul Ehrlich Roux and Yersin
	(C) (A)	Karl Landsteiner Frank Burnet ————————————————————————————————————	(B) (D)	Paul Ehrlich
	(C)	Karl Landsteiner Frank Burnet ————————————————————————————————————	(B) (D)	Paul Ehrlich Roux and Yersin
	(C) (A)	Karl Landsteiner Frank Burnet ————————————————————————————————————	(B) (D) logy.	Paul Ehrlich Roux and Yersin Antony Van Leeuwenhoek
103.	(C) (A) (C)	Karl Landsteiner Frank Burnet ————————————————————————————————————	(B) (D) logy. (B) (D)	Paul Ehrlich Roux and Yersin Antony Van Leeuwenhoek Louis Pasteur
	(C) (A) (C)	Karl Landsteiner Frank Burnet ————————————————————————————————————	(B) (D) logy. (B) (D)	Paul Ehrlich Roux and Yersin Antony Van Leeuwenhoek Louis Pasteur
103.	(C) (A) (C) The s	Karl Landsteiner Frank Burnet ————————————————————————————————————	(B) (D) logy. (B) (D)	Paul Ehrlich Roux and Yersin Antony Van Leeuwenhoek Louis Pasteur
103.	(C) (A) (C) The s (A)	Karl Landsteiner Frank Burnet ————————————————————————————————————	(B) (D) logy. (B) roorg: (B)	Paul Ehrlich Roux and Yersin Antony Van Leeuwenhoek Louis Pasteur anisms was first challenged by Francesco Redi
103.	(C) (A) (C) The s (A) (C)	Karl Landsteiner Frank Burnet ————————————————————————————————————	(B) (D) logy. (B) (D)	Paul Ehrlich Roux and Yersin Antony Van Leeuwenhoek Louis Pasteur anisms was first challenged by Francesco Redi Galileo
103.	(C) (A) (C) The s (A) (C)	Karl Landsteiner Frank Burnet ————————————————————————————————————	(B) (D) logy. (B) (D) (D) dimen	Paul Ehrlich Roux and Yersin Antony Van Leeuwenhoek Louis Pasteur anisms was first challenged by Francesco Redi Galileo
103.	(C) (A) (C) The s (A) (C) Whic	Karl Landsteiner Frank Burnet is called the Father of bacterio. Robert Koch Robert Hook spontaneous theory of generation of mic Leeuwenhoek Robert Hook h among the following provides a three	(B) (D) logy. (B) (D) (D) dimen	Paul Ehrlich Roux and Yersin Antony Van Leeuwenhoek Louis Pasteur anisms was first challenged by Francesco Redi Galileo
103.	(C) (A) (C) The s (A) (C) Whic (A)	Karl Landsteiner Frank Burnet is called the Father of bacterio. Robert Koch Robert Hook spontaneous theory of generation of mic Leeuwenhoek Robert Hook h among the following provides a three Transmission Electron Microscope (TH	(B) (D) logy. (B) (D) (D) dimen	Paul Ehrlich Roux and Yersin Antony Van Leeuwenhoek Louis Pasteur anisms was first challenged by Francesco Redi Galileo

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- 112. Secretory IgA contains
 - (A) Polypeptide
 - 6) 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
- 114. All the following are the steps of phagocytoses except
 - (A) Recognition
 - (B) Antigen Presentation
 - (C) Engulfment
 - (D) Fusion

115. The condition is which structural of functional damage is produced by the action of immunologically competent cells or antibodies against the normal components of the body is called as

- (A) Acquired immunity
- Auto immunity

- (B) Adaptive 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

Active natural immunity

Active artificial immunity

- Double diffusions in two dimensions
- 117. Vaccination induces
 - (A)

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

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118. Which immunoglobulin class can pass through placenta?

(A)	IgG	 a:	а. 1		(B)	IgM
(C) .	IgA				(D)	IgE

119. Example of a fungal super antigen is

(A) Candida albicans



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Malassezia furfur

- (C) Aspergillus
- (D) Cryptococcus capsule

120. First component of complement which binds to antigen-antibody complex in classical

pathway is

JA)	Clq		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	(B)	Clr
(C)	Cls			(D)	C3

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

(A)	IgG	(3)	IgM	
(C)	IgA	(D)	IgE	

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

(A)	C1	da o la	(B)	. C2
(b)	C3		(D)	C5

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123.		pantibodies to ribonucleoprotein (RNP) a hich disease	ntige	ens SS-A (RO) and SS-B (La) are prod
	(A)	Sjogren syndrome	(B)	Systemic sclerosis
	(C)	Multiple sclerosis	(D)	Systemic Lupus Erythematous (SLE)
124.	Whie	ch class of immunoglobulin mediates Typ	e I h	ypersensitivity reactions?
	(A)	Ig G	(B)	Ig M
	(C)	Ig A	S)	IgE
125.		antibodies bind to basement membrane is the hallmark of	e ant	igens on kidney glomeruli and the alv
	()	Good Pasture syndrome	(B)	Myasthenia gravis
	(C)	Grave's disease	(D)_	Hashimoto's thyroiditis
126.	Anti	Citrullinated peptid Antibodies (ACPA)	are d	liagnostic for
	(A)	Systemic Lupus erythmatous	B)	Rhumatoid arthritis
	(C)	Sjogren syndrome	(D)	Scleroderma
127.	The	ability to respond immunologically to an	anti	is anditional by
121.	(A)	Tumor suppressor		Immune response genes
	(A) (C)	Allogene	(D)	Histocompatibility gene
	(0)	Anogene	(D) .	The subscription of the su
128.	Whie	ch of the following HLA typing given high	res	olution matching?
	(A)	Microcytotoxicity	100	
	(B)	Mixed lymphocyte reaction		
	(C)	PCR – RELP (Restriction Fragment Le	ngth	Polymor Phism)
	J)	PCR – DNA sequencing typing	0	
100	D 4			
129.		example of syngeneic graft Between dizygotic twins		
5 28	(A)	Between monozygotic twins	¢.	
	(C)	Between two member of same or different	onto	mogios
	(C) ,(D)	Between two member of same or difference Between two sites of same person	ents	shectes
	(D)	Detween two sites of same person		

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- 130. Selective media for N. gonorohea is
 - Thayer Martin medium
 - (B) Cooked meet medium
 - (C) Blood agar
 - (D) Serum agar

131. Wood sorter's disease is also known as

- (A) Cutaneous anthrax
- 3) Pulmonary anthrax
- (C) Intestinal anthrax
- (D) Pulmonary tuberculosis

132.	Liquid	medium	for	tubercle	bacilli is	
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Middle book 7H9

(B) Middle book 7H8

(C) Middle book 7H10

(D) LI medium

133. Verocytotoxin 1 of E. Coli is similar to

- (A) 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
 - (D) 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

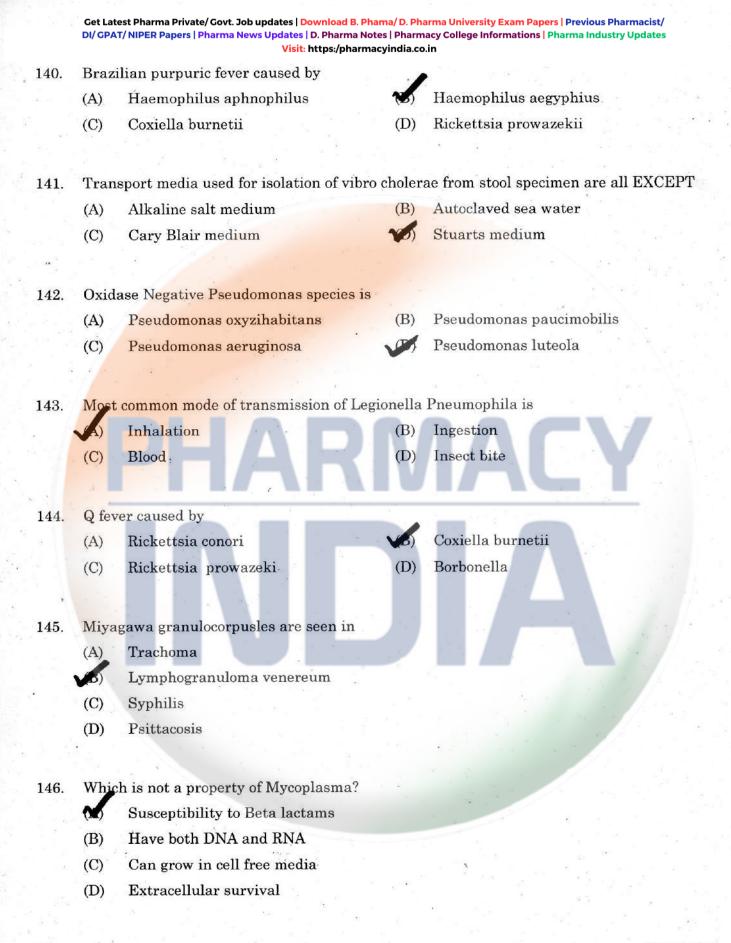


Pathogenesis is due to capsule

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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147.	Vect	or for African Trypanosomiasis		
	(A)	Sand fly	Va)	Tsetse fly
	(C)	Mosquito	(D)	Tick
ei				
148.	Chro	onic amoebic keratitis (CAK) is a comp	lication	n of
	(A)	N.Fowleri	-	A.Castellani
	.(C)	B.Mandrillaris	(D)	E.Histolytica
14) (4)		he was not in the second		
149.	Extra	a intestinal phase of taxoplasma gondi	i is see	en in all, except
	(A)	Man		Cat
	(C)	Mouse	(D)	Cow
(A.)				ΛΛΓ\/
150.	Pern	ic <mark>ious m</mark> alaria is caused by,		
	(A)	P. Vivax	(B)	P. Ovale
	NES	P. Falliparum	(D)	P. Malariae
151.	Mau	rer's dots are present in the infected R	BC of,	
	(A)	P.Vivax	S	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		
	5	T. Saginata		
	(D)	A. duodenale		말 요즘 집 것 같은 영화

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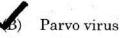


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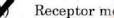
- 158. Which of the following is the smallest virus?
 - (A) Papo virus
 - (C) Pallimoa virus



(D)

Rubella virus

Viro pexis is the 159.



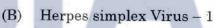
- Receptor mediated endocytosis
- (B) Synthesis of Nucleic Acids
- (C) Exocytosis
- (D) Uncoating of virus

160. In egg inoculation, yolk sac route is used to

- 15 Cultivate arbo viruses
- **(B)** Cultivate Hepatitis A virus
- (C) Cultivate salmonella bacteria
- (D) Cultivate Mycobacterium tuberculosis

In egg inoculation, Amniotic sac route is used to cultivate 161.

Influenza virus



(C) **Epstein Barr Virus** (D) Herpes simplex Virus - 2

162. In molecular methods real time RT - PCR is used for

- (A) Quantification of DNA
- Identification of prions (C)

Quantification of RNA

Detection of Proteins (D)

Which of the following viruses are called orphan viruses? 163.

- (A) Polio virus
- Coxsackie virus (C)



Echo virus

Entero virus (D)

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- 164. Which of the following vaccine is killed vaccine?
 - (A) Sabin polio vaccine
 - (B) BCG vaccine
 - C) Salk polio vaccine
 - (D) Sabin and salk polio vaccine

165. Type I interferons are

- (A) Alpha and gamma interferon
- (B) Beta interferon
- () Alpha and beta interferons
- (D) Gamma interferon

'166. Virusoids are

- (A) Animal pathogen
- (C) Aquatic virus

- Plant pathogen Human pathogen
- 167. Name the filamentous shaped virus
 - (A) Herpes virus
 - (C) Parvo virus

Ebola virus

(D)

(D) Rabies virus

168. Small pox was eradicated in the year

(C) 1967 (D) 1957	(A)	1977	(B)	1978	
	(C)	1967	(D)	1957	

169. Which year did WHO announced global eradication of small pox?

(A)	May 8 th 1980	(B) .	May 18 th 1980	
(C)	March 18 th 1980	(D)	May 8 th 1981	

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- The following are the strains of Poliovirus Except? 170.
 - (A) Lansing and MEFI strain
 - Leon and Saukett strain (B)
 - Dahar strain
 - Mahoney strain (D)
- When passaged serially in eggs the progeny influenza virus show high haemagglutinin titres 171. but low infectivity which is called as?



- Von Magnus Phenomenon
- Pfeiffer's phenomenon (B)
- (C) Koeber's phenomenon
- (D) · Kauffman's phenomenon
- What is the natural host for Nipah Viruses? 172.
 - (A) Pigs
 - Fruit bats

- Herons **(B)** (D) Horses
- The following mumps vaccine are available except 173.
 - Monovalent mumps vaccine (A)
 - Divalent measles mumps vaccine
 - (C) Trivalent MMR vaccine
 - (D) Quadrivalent MMR-V vaccine

Rabies is not seen in 174.

(A)	India		(B)	Brazil
Nor	Australia		(D)	China

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175. All are structural genes in the genome of HIV Except?

N	nef	(B)	gag
(C)	env	(D)	pol

176. Which one of the following statements about prions is false?

- A) 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. Which of the following viruses is a DNA oncogenic virus?

- (A) Murine lentrosis viruses
- (B) Avian lentrosis viruses
- (C) Murine mammary tumour virus
 -) Yaba virus

178. Which of the following virus is a long thread like RNA?

- (A) Zika virus
- (C) Nipah virus

Ebola virus

(D) Hendra virus

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

US

Breastfeeding

- (B) Blood transfusion
- (C) Perinatal transmission
- (D) Sexual transmission

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- 180. Black piedra is caused by one of the following fungi
 - (A) Trichosporon species (A) Piedraia hortae
 - (C) Hortaea werneckii (D) Malassezia furfur
- 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
 (B) Hortaea werneckii
 (C) Piedraia hortae
 (D) Trichosporon species
- 183. Phialophora verrucosa is a tropical / subtropical fungus that causes
 - (A) Maduro mycosis
 - 3) Chromoblastomycosis
 - (C) Sporotrichosis
 - (D) Candidiasis
- 184. Desert rheumatism is seen in
 - Coccidioidomycosis
 - (B) Paracoccidioidomycosis
 - (C) 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
 - Temperatures of > 38.3°c (A)
 - (C) Duration of > 3 wks

Duration of > 1 wks

Staphylococcus epidermidis

Enterococcus faecalis

- (D) Three outpatient visits
- 186. Post operative endocarditis is due to
 - Staphylococcal epidermidis
 - (B) Staphy lococcus aureus
 - (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.

(D)

- (A) Staphylococcus aureus
- (C) Streptococcus Pyogenes
- Hand rub should not be used in which condition. 188.
 - (A) Before touching patient
 - After touching patient

 - (D) After touching patient's surrounding

Pseudobubo is present in 189.

- (A) LGV
- (C) Chancroid

Suphilis Donovanosis

Orthomyxoviruses

Herpes (D)

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190.

(A)

(C)

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- Hands are visibly soiled

Toxoplasmosis

(B)



- 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(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?

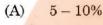
- A) Dukoral
- (B) WC V. cholerae E1Tor
- (C) WC V. cholerae classical
- (D) WC V. cholerae inaba

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196. In which method, an absorbent ship with a known gradient of antibiotic concentration along its length is used for antibiotic sensitivity testing?



- Kirby Baner disc diffusion method
- 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



(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
b	20 mm	(D)	30 mm

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