Enom Date - 25-08-2L

पुस्तिका में पृष्ठों की संख्या—32 No. of Pages in Booklet -32 पुस्तिका में प्रश्नों की संख्या—180 No. of Questions in Booklet -180

Paper Code: 02

SUBJECT: Microbiology

(Broad Speciality)

समयः 3.00 घण्टे

Time: 3.00 Hours

BSAP-22



प्रश्न पुरितका संख्या / Question Booklet No.

अधिकतम अंकः 180

Maximum Marks: 180

प्रश्न-पत्र पुस्तिका के पेपर सील / पॉलिथिन बैग को खोलने पर परीक्षार्थी यह सुनिश्चित कर लें कि प्रश्न पुस्तिका संख्या तथा ओ.एम.आर. उत्तर-पत्रक पर अंकित बारकोड समान हैं। इसमें कोई भिन्नता हो तो परीक्षार्थी वीक्षक से दूसरा प्रश्न-पत्र प्राप्त कर लें। ऐसा सुनिश्चित करने की जिम्मेदारी अभ्यर्थी की होगी।

On opening the paper seal/ polythene bag of the Question Booklet the candidate should ensure that Question Booklet Number and Barcode of OMR Answer Sheet must be same. If there is any difference, candidate must obtain another Question Booklet from Invigilator. Candidate himself shall be responsible for ensuring this.

परीक्षार्थियों के लिए निर्देश

- 1. सभी प्रश्नों के उत्तर दीजिए।
- 2. सभी प्रश्नों के अंक समान हैं।
- 3. प्रत्येक प्रश्न का केवल एक ही उत्तर दीजिए।
- 4. एक से अधिक उत्तर देने की दशा में प्रश्न के उत्तर को गलत माना जाएगा।
- 5. प्रत्येक प्रश्न के चार वैकल्पिक उत्तर दिये गये हैं, जिन्हें क्रमशः 1, 2, 3, 4 अंकित किया गया है। अभ्यर्थी को सही उत्तर निर्दिष्ट करते हुए उनमें से केवल एक गोले अथवा बबल को उत्तर-पत्रक पर नीले बॉल प्वॉइंट पेन से गहरा करना है।
- 6. OMR उत्तर—पत्रक इस परीक्षा पुस्तिका के अन्दर रखा है। जब आपको परीक्षा पुस्तिका खोलने को कहा जाए, तो उत्तर—पत्रक निकाल कर ध्यान से केवल नीले बॉल प्वॉइंट पेन से विवरण भरें।
- 7. प्रत्येक गलत उत्तर के लिए प्रश्न अंक का 1/3 भाग काटा जायेगा। गलत उत्तर से तात्पर्य अशुद्ध उत्तर अथवा किसी भी प्रश्न के एक से अधिक उत्तर से है। किसी भी प्रश्न से संबंधित गोले या बबल को खाली छोड़ना गलत उत्तर नहीं माना जायेगा।
- मोबाइल फोन अथवा इलेक्ट्रॉनिक यंत्र का परीक्षा हॉल में प्रयोग पूर्णतया वर्जित हैं। यदि किसी अभ्यर्थी के पास ऐसी कोई वर्जित सामग्री मिलती है, तो उसके विरुद्ध आयोग द्वारा नियमानुसार कार्यवाही की जायेगी।
- कृपया अपना रोल नम्बर ओ.एम.आर. पत्रक पर सावधानी पूर्वक सही भरें। गलत अथवा अपूर्ण रोल नम्बर भरने पर 5 अंक कुल प्राप्तांकों में से काटे जा सकते हैं।
- 10. यदि किसी प्रश्न में किसी प्रकार की कोई मुद्रण या तथ्यात्मक प्रकार की त्रुटि हो, तो प्रश्न के हिन्दी तथा अंग्रेज़ी रूपान्तरों में से अंग्रेज़ी रूपान्तर मान्य होगा।

चेतावनी: अगर कोई अभ्यर्थी नकल करते पकड़ा जाता है या उसके पास से कोई अनिधकृत सामग्री पाई जाती है, तो उस अभ्यर्थी के विरुद्ध पुलिस में प्राथमिकी दर्ज कराते हुए विविध नियमों—प्रावधानों के तहत कार्यवाही की जाएगी। साथ ही विभाग ऐसे अभ्यर्थी को भविष्य में होने वाली विभाग की समस्त परीक्षाओं से विवर्जित कर सकता है।

INSTRUCTIONS FOR CANDIDATES

- 1. Answer all questions.
- 2. All questions carry equal marks.
- 3. Only one answer is to be given for each question.
- 4. If more than one answers are marked, it would be treated as wrong answer.
- Each question has four alternative responses marked serially as 1, 2, 3, 4. You have to darken only one circle or bubble indicating the correct answer on the Answer Sheet using BLUE BALL POINT PEN.
- The OMR Answer Sheet is inside this Test Booklet. When
 you are directed to open the Test Booklet, take out the
 Answer Sheet and fill in the particulars carefully with
 blue ball point pen only.
- 7. 1/3 part of the mark(s) of each question will be deducted for each wrong answer. A wrong answer means an incorrect answer or more than one answers for any question. Leaving all the relevant circles or bubbles of any question blank will not be considered as wrong answer.
- Mobile Phone or any other electronic gadget in the examination hall is strictly prohibited. A candidate found with any of such objectionable material with him/her will be strictly dealt as per rules.
- Please correctly fill your Roll Number in O.M.R. Sheet.
 5 Marks can be deducted for filling wrong or incomplete Roll Number.
- If there is any sort of ambiguity/mistake either of printing or factual nature, then out of Hindi and English Version of the question, the English Version will be treated as standard.

Warning: If a candidate is found copying or if any unauthorized material is found in his/her possession, F.I.R. would be lodged against him/her in the Police Station and he/she would liable to be prosecuted. Department may also debar him/her permanently from all future examinations.

इस परीक्षा पुस्तिका को तब तक न खोलें जब तक कहा न जाए। Do not open this Test Booklet until you are asked to do so.

1.	Adhe	Adherence of Entamoeba histolytica to colonic mucosa is mediated by -					
	— (1)	Çollagen					
	$\mathfrak{Z}^{(2)}$	Fibronectin					
	\subseteq (3)	Histolysin					
		Lectin					
2.	Lange	erhans cells in skin are -					
	(1)	Antigen presenting cells					
	(2)	Pigment producing cells					
	(3)	Keratin synthesising cells					
	(4)	Sensory neurons					
3.	Phylu	m zygomycota includes all, except -					
	(1)	Epidermophyton					
	(2)	Mucor					
	(3)	Syncephalastrum					
	(4)	Rhizopus					
4.		ological complication following rabies vaccine is common with -					
	(1)	HDCS Vaccine					
	(2)	Chick embryo					
	(3)	Sample Vaccine					
	(4)	Duck egg Vaccine					
5.	Whic	h of the following is the integrated genetic material of a virus?					
	(1)	Virus like particle					
	(2)	Prion					
	(3)	Provirus					
	(4)	Viroid					
6.		h statement is incorrect about Zygomycetes infection?					
	(1)	Is an opportunistic infection					
	(2)	Are found on decaying vegetable matter					
	(3)	Causes vascular invasion & rapidly produce thrombosis & necrosis of tissue					
	(4)	Produce macroconidia					
7.	Whic	h of the following virus undergoes zoonotic transmission?					
	(1)	Rhinovirus					
	(2)	HIV					
	(3)	HBV					
	(4)	Rhabdovirus					

Which of the following is only yeast? 8. (1) Geotrichum (2) Trichosporon (3) Rhodotorula (4) Candida Which of the following does not cause invasive diarrhoea? 9. (1) Salmonella (2) Aeromonas (3) Shigella (4) Bacillus cereus Orientia tsutsugamushi causes -10. (1) RMSF (2) Scrub typhus (3) Epidemic typhus (4) Rickettsial pox Which fungus is lipophilic? 11. (1) Candida (2) Malassezia furfur (3) Histoplasma (4) Cryptococcus Treatment of choice for sputum positive pulmonary tuberculosis detected in 1st trimester of 12. pregnancy -(1) Defer till 2nd trimester (2) Start category I immediately (3) Start category II immediately (4) Start category III immediately Chagas' disease is caused by -13. (1) Trypanosoma cruzi (2) Leishmania donovani (3) Trypanosoma brucei (4) Leishmania braziliensis Which of the following might not be the effective control measures in reducing the hospital acquired 14. infection? (1) Testing of sterilization technique (2) More use of antibiotics for infection (3) Proper attention to routine hygiene practices (4) Routine sampling for bacteriology and sensitivity tracing

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·	(4)	Babesia microti
	(3)	Plasmodium falciparum
	(2)	Plasmodium malariae
	(1)	Plasmodium vivax
21.		ction of histidine rich protein – 2 antigen is a sensitive, specific diagnostic test for -
	(4)	Dependent on host cell for replication
	(3)	Are obligate intracellular parasite
	(2)	Multiply by binary fission
	(1)	Contain only one type of nucleic acid, either DNA or RNA
20.	Whic	h of the following is not a characteristic of viruses?
	(4)	Rhizopus
	(3)	Cryptococcus
	(2)	Candida
	(1)	Histoplasma
19.	Darli	ng disease is caused by -
	(4)	Helicobacter pylori
	(3)	Serratia marcescens
	(2)	Acinetobacter baumannii
	(1)	Pseudomonas pyocyaneus
18.		h organism forms pink/red non-diffusible pigment on Nutrient Agar?
	(4)	Trichuri trichiura
	(3)	Necator americanus
	(2)	Ascaris lumbricoides
	(1)	Lung fluke
17.	Loeff	ler's syndrome is caused by -
	(4)	Histoplasma
	(3)	Phialophora
	(2)	Coccidioides
AU•	(1)	Sporothrix
16.	` '	y fever or desert rheumatism is caused by -
	(4)	Sendai Virus
	(3)	PIV – 2
	(2)	Simian virus
	(1)	PIV – 4

Which of the following was the first parainfluenza virus isolated?

15.

22.	All are	e negative strand RNA viruses, except -
	(1)	Rhabdovirus
	(2)	Poliovirus
	(3)	Orthomyxovirus
	(4)	Paramyxovirus
23.	Beta i	nterferon is produced because of -
	(1)	Bacteria infected cells
	(2)	Virus infected cells
	(3)	Mycoplasma infected cells
	(4)	Parasitic infected cells
24.	Waste	e (sharps including metal needles), syringes with fixed needles, scalpels, blades etc. should be
	segre	gated in -
	٠,,	Yellow plastic bags
	(2)	Red coloured non chlorinated plastic bags
	(3)	Puncture proof, leak proof, translucent tamper proof containers
	(4)	Autoclave safe plastic bags
25.	Most	frequent cause of scalded skin syndrome is -
	(1)	Staphylococci
	(2)	Pneumococci
	(3)	Enterococci
	(4)	Meningococci
26.	Here	ditary angioneurotic edema is due to -
	(1)	Deficiency of C1 inhibitor
	(2)	Deficiency of NADPH oxidase
	(3)	Deficiency of MPO
	(4)	Deficiency of Properdin
27.	Triac	d of congenital toxoplasmosis is all, except -
	(1)	Intracranial calcification
	(2)	Hydrocephalus
	(3)	Chorioretinitis
	(4)	Covulsion
28.	Ente	robiasis causes all, except -
	(1)	Pruritus periani
	(2)	Salpingitis
	(3)	Nocturnal enuresis
	(4)	Protein energy malnutrition

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	(4)	Chlamydia pneumoniae		
	(3)	Chlamydia psittaci		
	(2)	Serovar A, B, C of chlamydia trachomatis		
	(1)	L ₁ , L ₂ , L ₃ serovars of chlamydia trachomatis		
34.	Lymp	phogranuloma venereum is caused by -		
		IgG can cross the placenta		
	(3)	80% of IgM is intravascular		
	(2)	Half-life of IgG is 5 days		
	(1)	Sedimentation coefficient of IgM is 19		
33.	• Which statement is incorrect?			
	(4)	Thayer-Martin medium		
	(3)	VR medium		
	(2)	Stuart medium		
	(1)	Pike's medium		
32.	Trans	sport medium for gonococcus -		
	(4)	Reoviridae		
	(3)	Orthomyxoviridae		
	(2)	Rhabdovirus		
	(1)	Bunyaviridae		
31.	Segm	ented genome is found in all, except -		
	(4)	Loa loa		
	(3)	Onchocerciasis		
	(2)	Bancroftian filaria		
	(1)	Malayan filaria		
30.	Chylu	ıria is seen in -		
	(4)	Ethanol		
	(3)	Iodine		
	(2)	Glutaraldehyde		
	(1)	Formalin		

Respiratory therapy equipment, endoscopes and haemodialysis equipment are disinfected by -

29.

- 35. Variable portion of antibody molecule is -(1) C-terminal (2) N- terminal (3) CHO moiety (4) None Treatment of Toxoplasmosis is -36. (1) Trimethoprim & Sulfamethoxazole (2) Sulfadiazine & Pyrimethamine (3) Chloroquine (4) Artemisinin Nomenclature of parasite is done in the following manner -37. (1) Ascaris Lumbricoides, linnaeus 1758 (2) Ascaris lumbricoides Linnaeus, 1758 (3) ascaris lumbricoides 1758 linnaeus (4) Ascaris 1758 linnaeus Bombay blood group has absence of -38. (1) A antigen (2) A and B antigen (3) A, B and H antigen (4) H antigen alone 39. Which parasite doesn't cause anaemia? (1) Leishmania tropica (2) Necator americanus (3) Plasmodium species (4) Ancylostoma duodenale Which of the following statement is incorrect? 40. (1) Limit of resolution with unaided eye is 0.2 mm (2) To be resolved, an object should have same size as the wavelength of light used (3) Degree of enlargement of image depends on limit of resolution Resolving power = $\frac{\text{wavelength of light used}}{2 \times \text{numerical aperture}}$ (approx.) Non gonococcal urethritis is not seen in infection with -41.
 - (1) Chlamydia trachomatis
 - (2) Trichomonas vaginalis
 - (3) Candida albicans
 - (4) Escherichia coli

42.	Which	ch is the dangerous hepatitis virus during pregnancy?			
	(1)	Hepatitis A			
	(2)	Hepatitis B			
	(3)	Hepatitis D			
	(4)	Hepatitis E			
43.	Niaci	n & Nitrate reduction tests are positive in -			
	(1)	M. kansasii			
	(2)	M. tuberculosis			
	(3)	M. bovis			
	(4)	M. simiae			
44.	Whic	h statement is incorrect about superficial or cutaneous mycoses?			
	(1)	Infect non-keratinized tissues			
	(2)	Infect hair, skin or nail			
	(3)	Are dermatophytes			
	(4)	Agent of Tinea nigra			
45.	Prope	erty of elution is found in -			
	(1)	Myxovirus			
	(2)	Togavirus			
	(3)	Panovirus			
	(4)	Adenovirus			
46.	Whic	h parasite doesn't enter the body through skin?			
	(1)	Ancylostoma duodenale			
	(2)	Strongyloides stercoralis			
	(3)	Necator americanus			
	(4)	Trichinella spiralis			
47.	Hanta	avirus belongs to -			
	(1)	Family Bunyaviridae			
	(2)	Togavirus family			
	(3)	Flaviviridae			
	(4)	Reoviridae			
48.	Prion	s are -			
	(1)	Infectious proteins			
	(2)	Made up of virus particles			
	(3)	It is a nuclear material			
	(4)	Can be cultured			

A rapidly growing mold produces powdery, blue - green colony & microscopically shows hyaline, 49. septate hyphae with dichotomy. Tip of conidiophore has flask shaped vesicle with single row of phialides covering upper half or two-third of vesicle. The fungus is -(1) Aspergillus flavus (2) Aspergillus terreus (3) Aspergillus fumigatus (4) Penicillium All statements about Pseudomonas aeruginosa are true, except -50. (1) Pyocyanin is produced only by pseudomonas aeruginosa. (2) Clinical isolates of pseudomonas aeruginosa are piliated. (3) It is not susceptible to silver sulphonamide compounds. (4) It is the most common cause of infection in burns. Hide porter's disease is caused by -**51.** (1) Corynebacterium

(2) Bacillus anthracis

(2) Bachius anuliacis

(3) Clostridium septicum

(4) Bacillus subtilis

- 52. A fungus which causes chronic, granulomatous disease with development of friable polyps in the nose is -
 - (1) Cryptococcus neoformans
 - (2) Cladosporium
 - (3) Rhinosporidium seeberi
 - (4) Penicillium marneffei
- 53. How many codon (triplet codes) words can be formed by the four bases (A, C, G, T) in DNA in various combinations?
 - **(1)** 32
 - **(2)** 16
 - (3) 64
 - (4) 256
- 54. Which of the following dimorphic fungi form spherule instead of yeast cells in tissue phase?
 - (1) Histoplasma capsulatum
 - (2) Blastomyces dermatitidis
 - (3) Coccidioidomycosis
 - (4) Paracoccidioides brasiliensis

55.	W/hich	statement	10	incorrect'

- (1) Buffers tend to resist changes in hydrogen ion conc.
- (2) Buffers are formed by mixing a weak acid with its salt.
- (3) Buffers are formed by mixing a strong acid with its salt.
- (4) Buffering power of acetic acid & sodium acetate is greatest when the two are present in equimolar concentration.

56. Mycoplasma is intrinsically resistant to -

- (1) Aminoglycosides
- (2) Ceftazidime
- (3) Macrolides
- (4) Doxycycline

57. Fungal DNA synthesis is inhibited by -

- (1) Flucytosine
- (2) Amphotericin B
- (3) Nystatin
- (4) Azoles

58. Haemorrhagic uremic syndrome is caused by -

- (1) Verotoxigenic Escherichia coli (VTEC)
- (2) Enteropathogenic E. coli (EPEC)
- (3) Enterotoxigenic E. coli (ETEC)
- (4) Enteroinvasive E. coli (EIEC)

59. Which of the following drug is used to treat genital herpes infection?

- (1) Penciclovir
- (2) Pleconaril
- (3) Oseltamivir
- (4) Efavirenz

60. C – carbohydrate in Streptococcus haemolyticus (β) is important for -

- (1) Lancefield classification
- (2) Phagocytic inhibition
- (3) Toxin production
- (4) Hemolysis

61.		Fold standard method of diagnosis for trichomoniasis - (1) PCR				
	(2)	Microscopy				
	(3)	Giemsa stain				
	(4)	Culture				
62.	• •	yping and serosubtyping of meningococci are based on -				
<u></u> -	(1) Outer membrane proteins					
	(2)	Endotoxin				
	(3)	Capsule polysaccharide				
	(4)	Transferring binding proteins				
63.	` '	's syndrome is a complication seen after all the following viral infections, except -				
	(1)	Influenza A				
	(2)	Influenza B				
	(3)	Varicella zoster				
	(4)	Measles				
64.	Whic	h organ is not a peripheral (secondary) lymphoid organ?				
	(1)	Thymus				
	(2)	Lymph nodes				
	(3)	Spleen				
	(4)	Mucosa associated lymphoid issue				
65.	Urea	e breath test is used for which organism?				
	(1)	Haemophilus influenzae				
	(2)	Campylobacter jejuni				
	(3)					
	(4)	•				
66.		ody is seen in -				
	(1)					
	(2)	Chlamydia pneumoniae				
	(3)	Chlamydia psittaci				
	(4)	Mycoplasma hominis				
67.	Trea	tment of choice for Vancomycin resistant Staphylococcus aureus is -				
	(1)	Cloxacillin				
	(2)					
	(3)					
	(4)	Cephalexin				

68.	Whic	n statement is incorrect about endotoxins?
	(1)	Are heat stable lipopolysaccharide in the cell wall of gram negative bacteria.
	(2)	Are released on bacterial death and in part during growth.
	(3)	Are not pyrogenic.
	(4)	LPS of bacteroides species are much less toxic.
69.		quantification is done by -
	(1)	Plaque assay
	(2)	Egg inoculation
	(3)	Hemadsorption
	(4)	Electron microscopy
70.	Whic	h of the following is generally not considered a potential danger of bioterrorism and biologic
	warfa	re?
	(1)	Bacillus anthracis
	(2)	Streptococcus pyogenes
	(3)	Chlamydia psittaci
	(4)	Rickettsia prowazekii
71.	Whic	h one of these is not a basic dye?
	(1)	Mala Di
	(1)	Methylene Blue
	(2)	Methyl Violet Basic Fuchsin
	` '	Sodium Eosinate
72.	` '	re natural parasites of rodents, except -
		Leptospires
	(* /	Loptospitos

- (2) Streptobacillus moniliformis
- (3) Neisseria meningitidis
- (4) Yersinia pestis
- 73. Dienes stain is used for -
 - (1) Campylobacter
 - (2) Rickettsiae
 - (3) Helicobacter
 - (4) Mycoplasma

- 74. Which of the following organism is not oxidase positive?
 - (1) Pasteurella multocida
 - (2) Acinetobacter
 - (3) Neisseria meningitidis
 - (4) Pseudomonas
- 75. Which of the following poxvirus causes Milker's nodules?
 - (1) Orthopoxvirus
 - (2) Yatapoxvirus
 - (3) Molluscipoxvirus
 - (4) Parapoxvirus
- 76. Which parasite doesn't cause malignancy?
 - (1) Schistosoma haematobium
 - (2) Babesia microti
 - (3) Fasciola hepatica
 - (4) Clonorchis sinensis
- 77. Von Magnus phenomenon is -
 - (1) Abnormal replicative cycle
 - (2) Virus with low infectivity
 - (3) Virus with high hemagglutination
 - (4) All of the above
- 78. Which feature is not seen in cladosporium?
 - (1) Is a dematiceous fungus
 - (2) Give rise to chains of darkly pigmented conidia
 - (3) Disjunctors
 - (4) Multicellular conidia
- **79.** Which statement is incorrect?
 - (1) Forssman antigen is a heterophile antigen.
 - (2) Forssman antigen is absent in rabbit.
 - (3) Anti Forssman antibody is prepared in rabbit.
 - (4) Weil-Felix reaction is not an heterophile reaction.
- 80. Disinfectant to be used prior to obtaining a blood culture or installing intravenous catheter -
 - (1) Tincture of iodine 2%, followed by 70% alcohol
 - (2) 70% ethanol
 - (3) Povidone iodine
 - (4) 100% ethanol

81.	All st	atements are true for normal flora, except -
	(1)	Normal bacterial flora consist largely of commensals
	(2)	Anaerobes to aerobes ratio is 1000:1
	(3)	Synthesises Vitamin K
	(4)	Doesn't prevent colonisation with pathogenic microbes
82.	In wh	ich phase β-lactam antibiotics are most effective?
	(1)	Lag phase
	(2)	Log phase
	(3)	Stationary phase
03	(4)	Phase of decline
83.		h of the following is choice of antibiotic in bedridden patient in ICU with CAUTI and VAP in
	India ⁴	
	(1)	Amoxicillin Patalanta and that a land a second of the land and the la
	(2)	Betalactams/ beta lactamase inhibitors
	(3)	Third generation cephalosporins
	(4)	Second generation cephalosporins
84.	Newo	eastle virus belongs to family -
	(1)	Paramyxovirus
	(2)	Calicivirus
	(3)	Flavivirus
	(4)	Filovirus
85.	Man	is both intermediate & definitive host for -
	(1)	Taenia solium
	(2)	Taenia saginata
	(3)	Diphyllobothrium latum
	(4)	Echinococcus granulosus
86.	Virus	infected cells are killed by -
	(1)	N K cells

(2) Plasma cells

(3) B-cells

(4) None

87.	By wł	nich route vaccines are not administered?						
	(1)	Intrade	Intradermal					
	(2)	Intrave	Intravenous					
	(3)	Intram	uscular					
	(4)	Oral						
88.	Funct	ion of g	p120 H	IV envelope	is -			
	(1)	Transfe	ection					
	(2)	Cell pe	Cell penetration					
	(3)	Attach	ment of	CD4 receptor	or			
	(4)	Integra	tion of	nucleic acid				
89.	IgE b	inds to v	which c	eII?				
	(1)	T cells						
	(2)	B cells						
	(3)	Mast c	ells					
	(4)	NK ce	lls					
90.		– I is pr						
	• • •	All nu						
		•	Only on cells of immune system					
	(3)	Only o	Only on B cells					
		•	Only on T cells					
91.		h the fol	_					
	(a)	Genus	Tricho	ohyton	• •	Hair & Skin		
	(b)	Genus	Micros	porum	(2)	Hair, Skin & Nail		
	(c)	Genus	Epiden	mophyton	(3)	Skin & Nail		
		a	b	c				
	(1)		1	3				
	(2)		2	3				
		3	2	1				
	(4)		1	2				
92.	` '		gus rhiz	zoids arise ju	st belo	ow Sporangiophore?		
	(1)	Muco	:	_				
	(2)	Absid	ia					
	(3)	Rhizo	pus					
	(4)	Synce	phalast	rum				

93. Emmons modified Sabouraud dextrose agar medium has one of the following pH -(1) 5.6 **(2)** 6.8 (3) 7.4 (4) 8.2 94. A person consumed raw fish daily for two weeks – After few weeks on examination he was found anaemic & his Vitamin B₁₂ level was below normal. Which of the following is the most likely cause of his Vitamin B₁₂ deficiency anaemia? (1) Clonorchis sinensis (2) Diphyllobothrium latum (3) Fasciola hepatica (4) Schistosoma japonicum 95. Which of the following statement is incorrect? (1) In the classification of bacteria, the properties of a population are studied & not of an individual. (2) A clone is a population derived by binary fission from a single cell. (3) A few cells in a clone may show differences due to mutation. (4) A population of bacteria derived from a single cell is called a strain. 96. Haemagglutination is done by all viruses, except -(1) Togavirus (2) Echoviruses (3) Measles (4) Human Papillomavirus Bluish green fungus which on microscopic examination shows hyaline, septate hyphae with **97.** conidiophores showing branching metulae & chains of conidia (brush like). The fungus is -(1) Rhizopus (2) Mucor (3) Penicillium (4) Aspergillus niger

- (1) Reagent used is 3% Hydrogen peroxide
- (2) Can be performed on blood agar plate
- (3) Can be performed with iron wire
- (4) Streptococcus pyogenes is catalase positive organism

	(1)	Ascaris lumbricoides						
	(2)	Brugia	Brugia malayi					
	(3)	Enterob	Enterobius vermicularis					
	(4)	Necator	r amei	icanus				
100.	Matcl	n the foll	owing	y Vecto	ors of	hum	an diseases caused by Rickettsia -	
	(a)	Epidem	ic typ	hus		(1)	Trombiculid mite	
	(b)	Endemi	c typł	ius		(2)	No vector	
	(c)	Scrub ty	yphus			(3)	Rat flea	
	(d)	Coxiella	a Burr	netii		(4)	Louse	
		a	b	С	d			
	(1)		3	1	2			
	(2)	2	1	3	4			
	(3)		4	2	3			
101.	(4) Mone	1 oclonal a	2 ntibod	3 Iv bind	4			
101.				iy bilid	.s to -	•		
	(1)	Epitope						
	(2)	Paratop	e					
	(3)	Both ep	Both epitope and paratope					
	(4)	None						
102.	IgE is	secreted	i by -					
	(1)	Mast ce	ell					
	(2)	Basoph	ils					
	(3)	Eosino	phils					
	(4)	Plasma	cells					
103.	Whic	h statem	ent is	incorre	ect ab	out t	ransposons?	
	(1)	Are pie	ces of	DNA				
	(2)	Are not	t self-1	replica	ting			
	(3)	Encode	for d	rug res	istan	ce		
	(4)	The loc	p car	rying tl	he ge	ne is	double stranded	

All are Oviparous parasite, except -

99.

A dematiceous fungus having curved conidia with a swollen central cells is seen in -(1) Alternaria (2) Curvularia (3) Drechslera (4) Bipolaris Which statement is incorrect about pseudomonas aeruginosa? 105. (1) Causes urinary tract infections following catheterisation. (2) Is not an important nosocomial pathogen. (3) Causes Ecthyma gangrenosum in cancer patients. (4) Causes necrotizing pneumonia in patients on contaminated equipments like respirators & endoscopes. Kanagawa phenomenon is seen in -106. (1) Pseudomonas aeruginosa (2) Vibrio parahaemolyticus (3) Shigella sonnei (4) Proteus mirabilis One of the following about Corynebacterium diphtheriae is wrong -(1) Gram negative (2) Babes – Ernst granules seen (3) Chinese letter pattern (4) Preventable by immunisation Which of the following antigen is found within the nuclei of infected hepatocytes and not usually in 108. the peripheral circulation in Hepatitis B infection? (1) HBeAg (2) HBcAg (3) Anti-HBc (4) HBs-Ag Naive T cells can be stimulated by -109. (1) NK cells and macrophages (2) NK cells only (3) B lymphocytes (4) Antigen presenting cells

- 110. Painless terminal hematuria is seen in infection with -
 - (1) Schistosoma mansoni
 - (2) Schistosoma haematobium
 - (3) Plasmodium falciparum
 - (4) Schistosoma japonicum
- 111. Which of the following statement is correct about electron microscope?
 - (1) Resolving power of electron microscope is about 0.1 nm.
 - (2) Wavelength of electrons is directly proportional to their velocity.
 - (3) Electron beam is focused by lenses as in light microscope.
 - (4) The object is examined in the air.
- 112. β -lactam antibiotics act through which mechanism?
 - (1) Inhibition of cell membrane function
 - (2) Inhibition of cell wall synthesis
 - (3) Inhibition of nucleic acid synthesis
 - (4) Inhibition of protein synthesis
- 113. Bile Esculin Test is for -
 - (1) Streptococcus pyogenes
 - (2) Streptococcus equinus
 - (3) Enterococcus
 - (4) Streptococcus mutans
- 114. Sclerotic bodies are seen -
 - (1) Rhinosporidiosis
 - (2) Chromoblastomycosis
 - (3) Candiasis
 - (4) Entomophthoromycosis
- 115. Immunoglobulins are produced by -
 - (1) Macrophages
 - (2) T cells
 - (3) B cells
 - (4) NK cells
- 116. Hydatid cyst is caused by -
 - (1) Ascaris lumbricoides
 - (2) Trypanosoma
 - (3) Echinococus granulosus
 - (4) Fasciola hepatica

117.	Bipola	ar staining is characteristics of -					
	(1)	Versinia pests					
	(2)	Shigella					
	(3)	Klebseilla					
	(4)	Proteus					
118.	In a p	patient who has bubonic form of plague, all of the following specimens are acceptable for					
	diagno	osis, except -					
	(1)	Stool culture on Hektoen enteric agar					
	(2)	Blood culture using routine laboratory media					
	(3)	culture of lymph node aspirate on blood or MacConkey agar					
	(4)	Acute and convalescent serology					
119.	А 4-у	ear old child presents with acute watery diarrhoea and abdominal cramps. Stool examination/					
	micro	scopy reveals trophozoites with falling leaf motility. The etiological agent is -					
	(1)	Entamoeba histolytica					
	(2)	Giardia lamblia					
	(3)	Trichomonas tenax					
	(4)	Balantidium coli					
120.	Fugit	ive or calabar swelling is seen in infection with -					
	(1)	Onchocerca volvulus					
	(2)	Loa loa					
	(3)	Wuchereria bancrofti					
	(4)	Brugia timori					
121.	Whic	h of the following is not used in the HIV-I treatment?					
	(1)	Delavirdine					
	(2)	Zidovudine					
	(3)	Rimantadine					
	(4)	Stavudine					
122.		discovered that penicillin is produced by the fungus penicillium?					
	(1)	Jerne					
	(2)	Fleming					
	(3)	Louis Pasteur					
	(4)	Joseph Lister					

123.	In which parasitic infection, autoinfection is not seen?					
	(1) Enterobius vermicularis					
	(2) Ancylostoma duodenale					
	(3) Strongyloide stercoralis					
	(4)	Taenia solium				
124.	-	erimental animal carcasses, body parts, organs, tissues etc. used in experiments or testing in				
	anima	mal houses should be disposed off by -				
	(1)	Plasma pyrolysis				
	(2)	Allowed to degrade in burials				
	(3)	Shredded and mixed with normal waste				
	(4)	Treating them with chemicals and burnt				
125.	Whic	h of the following is also known as 'fifth disease'?				
	(1)	Gastroenteritis				
	(2)	Aplastic crisis				
	(3)	Hydrops fetalis				
	(4)	Erythema infectiosum				
126.	Whic	h ribosome is not present in bacteria?				
	(1)) 70S				
	(2)	30S subunit				
	(3)	50S subunit				
	(4)	80S				
127.	Trich	ophyton – Zoophilic species is -				
	(1)	T. tonsurans				
	(2)	T. violaceum				
	(3)	T. schoenleinii				
	(4)	T. mentagrophytes				
128.	Speci	ial stain used to stain both live and dead fungi is -				
	(1)	H&E				
	(2)	PAS				
	(3)	Gomori methenamine silver				
	(4)	Toluidine blue				
	Mr.					

129.	Trivalent influenza vaccine contains all, except -							
	(1)	H_1N_1						
	(2)							
	(3)	Influenza B strain						
	(4)	H_3N_2						
130.	Exo-	erythrocytic schizogony is not seen in -						
	(1)	Plasmodium falciparum						
	Plasmodium vivax							
	(3) Plasmodium malariae							
	Plasmodium ovale							
131.	131. Which statement is incorrect about Naegleria fowleri?							
	(1)	Is a free living amoeba found in fresh water, mild & moist soil.						
	(2)	Causes primary amoebic meningoencephalitis.						
	(3)	Trophozoites enter the body through nasopharynx while swimming.						
	(4)	Causes keratitis in contact lens users.						
132.	Nosocomial infections/health care associated infections are all, except -							
	(1) Catheter associated UTI							
	(2)	Transfusion associated infections						
	(3)	Ventilator associated pneumonia						
122	(4)							
133.	Epstein-Barr virus is associated with the following malignancies, excep (1) Nasopharyngeal carcinoma							
	(2) Burkitt's lymphoma (3) Carcinoma of cervix							
	` '	Non-Hodgkin lymphoma						
134.	` '	th of the following is not a characteristic of Trichophyton rubrum?						
154.		<u>-</u>						
	(1)	Produces red color with age Produces urease						
	(2)							
	(4)							
135.	` '	nical syndrome resembling whooping cough is seen in all, except -						
133.								
	(1)	^						
	(2)							
	(3)							
	(4)	Pneumococcus						

- 136. Which of the following statement is incorrect about Leishmania donovani?
 - (1) Insect vector is sandfly (phlebotomus)
 - (2) Amastigote form occur in man
 - (3) Parasite multiply by binary fission
 - (4) Parasite multiply by sexual reproduction
- 137. Darting motility is seen in -
 - (1) Vibrio cholerae
 - (2) Salmonella typhi
 - (3) Escherichia coli
 - (4) Proteus mirabilis
- 138. Super carrier of HBV shows following serum markers -
 - (1) HBs Ag
 - (2) HBs Ag + HBV DNA
 - (3) HBs Ag + HBe Ag + HBV DNA
 - (4) Anti HBs Ag + HBV DNA
- 139. About Global Influenza Surveillance and Response System (GISRS), which statement is/are correct?
 - (1) In monitors the evolution of influenza viruses.
 - (2) Provides recommendations in areas including laboratory diagnostic, vaccines and treatment.
 - (3) Serves as a global alert mechanism for the emergence of influenza viruses with pandemic potential.
 - (4) All of the above
- 140. Rose Gardner's disease is -
 - (1) Rhinosporidiosis
 - (2) Chromoblastomycosis
 - (3) Sporotrichosis
 - (4) Entomophthoromycosis
- 141. The pathogenicity of Entamoeba histolytica is indicated by -
 - (1) Zymodeme pattern
 - (2) Size
 - (3) Nuclear pattern
 - (4) ELISA test
- 142. All the eggs float in saturated salt solution of specific gravity 1.200, except -
 - (1) Fertilized egg of Ascaris lumbricoides
 - (2) Egg of Ancylostoma duodenale
 - (3) Egg of Taenia saginata and Taenia solium
 - (4) Egg of Trichuris trichiura

- 143. The characteristic feature of pus of amoebic liver abscess is -(1) Anchovy sauce pus(2) Green coloured pus
 - (3) Thin blue pus
 - (4) None of the above
- 144. Which statement about antigens is incorrect?
 - (1) Only antigens that are foreign to an individual induce an immune response.
 - (2) Autologous antigens are ordinarily antigenic.
 - (3) Sequestrated antigen (lens protein) is not recognised as self-antigen.
 - (4) Antigens that are absent during embryonic life & develop later (sperms) are not recognised as self-antigen.
- 145. Parvovirus B19 has predilection for -
 - (1) Erythroid progenitor cells
 - (2) Myeloid progenitor cells
 - (3) Hematopoietic stem cells
 - (4) Lymphoid progenitor cells
- 146. Paul Bunnell test is done for -
 - (1) Chicken pox
 - (2) Infectious mononucleosis
 - (3) Ascending myelitis
 - (4) Herpes zoster
- 147. Color of granules produced by Actinomadura pelletieri -
 - (1) Black
 - (2) Yellow
 - (3) Red
 - (4) Brown
- 148. Which of the following subfamily contains the Epstein Barr virus?
 - (1) Alpha herpesviridae
 - (2) Beta herpesviridae
 - (3) Gamma herpesviridae
 - (4) Theta herpesviridae
- 149. Which statement is incorrect?
 - (1) pH value of a liquid is defined as logarithm of the reciprocal of hydrogen ion concentration.
 - (2) A liquid of pH 5.0 is 10 times less acid than one of pH 6.0.
 - (3) A liquid of pH 9.0 is 10 times more alkaline than one of pH 8.0.
 - (4) A pH value of less than 7.0 indicates an acid solution & greater than 7.0 indicates alkaline solution.

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	(")	Tamonal anotonio
	(4)	Pulmonary amoebiasis
	(2)	Liver abscess Splenomegaly
	(1)	Dysentery Liver changes
155.		moeba histolytica causes all, except -
	(4)	Anaphylactoid reaction
	(3)	Eichwald-Silmser effect
	(2)	Waterhouse-Friderichsen syndrome
	(1)	Fitz-Hugh-Curtis syndrome
154.		anism similar to Shwartzman reaction occurs in -
	(4)	
	(3)	Are microaerophilic
	(2)	Gram negative bacilli
	(1)	Are acid resistant
153.	Whic	h statement is incorrect about lactobacilli?
	(4)	Continuous cell line
	(3)	Cell culture
	(2)	Chorioallantoic membrane
	(1)	Organ culture
152.		s producing virus can be grown in -
	(4)	Chronic enteritis
	(3)	Cholecystopathy
	(2)	Cholelithiasis
	(1)	Malabsorption of fat
151.		ia lamblia causes all, except -
	, ,	Epstein – Barr virus
	(3)	Herpes zoster virus
	(2)	Herpes simplex virus type 1
	(1)	Cytomegalovirus
150.	Which	of the following virus causes latent infection in salivary gland & other organs?

Which hyaline, septate, monomorphic fungus which has fluffy to cottony pink colony & multicelled, 156. sickle shaped macroconidia? (1) Acremonium (2) Fusarium (3) M. gypseum (4) Paecilomyces 157. Reagent which is not incorporated in lactophenol cotton blue is -(1) Phenol crystals (2) Cotton blue & glycerol (3) Lactic acid (4) Malachite green 158. Burkholderia cepacia is intrinsically resistant to -(1) Ciprofloxacin (2) Ceftriaxone (3) Polymyxin B (4) Ampicillin 159. Delayed sequel of infection with measles virus is -(1) Creutzfeldt-Jakob disease (2) Subacute sclerosing panencephalitis (3) Subacute spongiform viral encephalopathy (4) Progressive multifocal leukoencephalopathy Which statement is incorrect about Candida albicans? (1) Shows Reynolds – Braude phenomenon (2) From Chlamydospores on corn meal agar (3) Produces Pseudomycelia both in tissue & culture (4) Is resistant to Nystatin How many mL melted NA (Nutrient Agar)/Mueller Hinton Agar medium should be poured in a 161. 9.0 cm petri dish for antibiotic sensitivity? (1) 15 mL (2) 30 mL (3) 12 mL

(4) 25 mL

162.	Iverm	mectin is effective in all, except -				
	(1)	Onchocerciasis				
	(2)	Intestinal Nematode infection				
	(3)	Lymphatic filariasis				
	(4)	Schistosomiasis				
163.	Nema	tode which passes its life cycle in two hosts is -				
	(1)	Ascaris lumbricoides				
	(2)	Ancylostoma duodenale				
	(3)	Wuchereria bancrofti				
	(4)	Trichuris trichiura				
164.	True s	statement regarding HEV diagnosis -				
	(1)	3 Genotype diagnosis is based on IgG HCV				
	(2)	Spreads through faeco oral route				
	(3)	Pegylated INF is treatment of choice				
	(4)	HCV real time PCR is the molecular diagnostic method of choice				
165.	Which	h drug binds the ergosterol component of the fungal cell membrane & disrupts it?				
	(1)	Ketoconazole				
	(2)	Nystatin				
	(3)	Amphotericin B				
	(4)	Griseofulvin				
166.	Whic	h marker serves as a useful indicator of prior infection with HBV, even after all the other				
		ers become undetectable?				
	(1)	Anti HBs				
	(2)	HBeAg (antigen)				
	(3)	HBs antigen				
	(4)	Anti HBc				
167.		raclean air OT, the bioload in the centre of an empty theatre should be -				
	(1)	Less than 1 bcp/m ³				
	(2)	Less than 10 bcp/m ³				
	(3)	20 bcp/m ³				
	(4)	35 bcp/m ³				

168.	Schult	nultz Dale phenomenon is -				
	(1)	Anaphylaxis in vivo				
	Anaphylaxis in vitro					
	Atopy					
	(4)	Cutaneous hypersensitivity				
169.	Most	common mode of transmission nosocomial infection -				
	(1)	Hand contact				
	(2)	Droplet infection				
	(3)	Blood and blood products				
	(4)	Contaminated water				
170.	70. Which method is not a phenotypic technique for typing microbial strain?					
	(1)	Bacteriocin typing				
	(2)	Biotyping				
	(3)	Serotyping				
	(4)	Restriction endonuclease analysis				
171.	Whic	h statement is incorrect?				
	(1)	Dengue IgM antibody appears within 2-5 days & persists for 1-3 months.				
	(2)	Haemorrhagic manifestations & shock are hypersensitivity response to sequential dengue				
		virus infection.				
	(3)	Interaction of IgG complexes with platelet Fc receptors leads to aggregation & vasoactive				
		amine release.				
	(4)	Dengue is transmitted by Anopheles mosquito.				
172.	Tynd	allisation is a type of -				
	(1)	Intermittent sterilization				
	(2)	Pasteurisation				
	(3)	Boiling				
	(4)	Autoclaving				

173.	Comp	plement components are synthesised at various sites in the body, except -						
	(1)	1) Intestinal epithelium						
	(2)	(2) Macrophages						
(3) Kidney								
	(4)	Spleer	n & Liv	/er				
174.	Kauffman white scheme is used in naming and identifying -					n naming and identifying -		
	(1)	Shige	lla					
	(2)	Vibrio						
	(3)	Esche	richia c	coli				
	(4)	Salmo	nella					
175.	Matcl	h the fo	llowing	g mycot	oxins	with the fungus which produces them –		
	(a)	Aflato	xins		(1)	Claviceps purpurea		
		Ergoto			(2)			
	(c)	Tricho	othecen	es	(3)	Aspergillus		
	4-45	a	b	c				
		3						
	(2)	1		3 1				
	(4)		3	1				
176.	` '	spores a		•				
	(1)	Asexu	ıal spor	es				
	(2)	Sexua	ıl spore	s				
	(3)	Conid	lia					
	(4)	None	of the	above				
177.	Glass	lassware is best sterilised in -						
	(1)	Hot air oven (160°C for two hours)						
	(2)	Autoc	laving	(121°C	for 15	5 min)		
	(3)	Irradiation						
	(4)	Glutaraldehyde (2%)						
	(-)	······································						

178.	Culture media used for diagnosis of EHEC 0157: H7 is -				
	(1) O ₂ culture				
	(2)	Sorbitol MacConkey media			
	(3)	XLD agar			
	(4)	Deoxycholate media			
179.	179. Which of the following organism is late lactose fermenter?				
	(1) Escherichia coli				
	(2)	Klebsiella			
	(3)	Salmonella			
	(4)	Shigella sonnei			
180. According to lattice hypothesis, antigen-antibody reaction		rding to lattice hypothesis, antigen-antibody reactions are seen in -			
	(1)	Zone of antigen excess			
	(2)	Zone of antibody excess			
	(3)	Zone of equivalence			
	(4)	With monovalent antibodies			

Space for Rough Work

Space for Rough Work

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