PROVISIONAL ANSWER KEY [CBRT]

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Instructions / સૂયના

Candidate must ensure compliance to the instructions mentioned below, else objections shall not be considered: -

- (1) All the suggestion should be submitted in prescribed format of suggestion sheet Physically.
- (2) Question wise suggestion to be submitted in the prescribed format (Suggestion Sheet) published on the website.
- (3) All suggestions are to be submitted with reference to the Master Question Paper with provisional answer key (Master Question Paper), published herewith on the website. Objections should be sent referring to the Question, Question No. & options of the Master Question Paper.
- (4) Suggestions regarding question nos. and options other than provisional answer key (Master Question Paper) shall not be considered.
- (5) Objections and answers suggested by the candidate should be in compliance with the responses given by him in his answer sheet. Objections shall not be considered, in case, if responses given in the answer sheet /response sheet and submitted suggestions are differed.
- (6) Objection for each question shall be made on separate sheet. Objection for more than one question in single sheet shall not be considered & treated as cancelled.

ઉમેદવારે નીયેની સૂયનાઓનું પાલન કરવાની તકેદારી રાખવી, અન્યથા વાંધા-સૂયન અંગે કરેલ રજૂઆતો ધ્યાને લેવાશે નહીં

- (1) ઉમેદવારે વાંધા-સૂચનો નિયત કરવામાં આવેલ વાંધા-સૂચન પત્રકથી રજૂ કરવાના રહેશે.
- (2) ઉમેદવારે પ્રશ્નપ્રમાણે વાંધા-સૂચનો રજૂ કરવા વેબસાઇટ પર પ્રસિધ્ધ થયેલ નિયત વાંધા-સૂચન પત્રકના નમૂનાનો જ ઉપયોગ કરવો.
- (3) ઉમેદવારે પોતાને પરીક્ષામાં મળેલ પ્રશ્નપુસ્તિકામાં છપાયેલ પ્રશ્નક્રમાંક મુજબ વાંધા-સૂચનો રજૂ ન કરતા તમામ વાંધા-સૂચનો વેબસાઈટ પર પ્રસિધ્ધ થયેલ પ્રોવિઝનલ આન્સર કી (માસ્ટર પ્રશ્નપત્ર)ના પ્રશ્ન ક્રમાંક મુજબ અને તે સંદર્ભમાં રજૂ કરવા.
- (4) માસ્ટર પ્રશ્નપત્ર માં નિર્દિષ્ટ પ્રશ્ન અને વિકલ્પ સિવાયના વાંધા-સુયન ધ્યાને લેવામાં આવશે નહીં.
- (5) ઉમેદવારે જે પ્રશ્નના વિકલ્પ પર વાંધો રજૂ કરેલ છે અને વિકલ્પ રૂપ્પે જે જવાબ સૂચવેલ છે એ જવાબ ઉમેદવારે પોતાની ઉત્તરવહીમાં આપેલ હોવો જોઈએ. ઉમેદવારે સૂચવેલ જવાબ અને ઉત્તરવહીનો જવાબ ભિન્ન હશે તો ઉમેદવારે રજૂ કરેલ વાંધા-સૂચન ધ્યાનમાં લેવાશે નહીં.
- (6) એક પ્રશ્ન માટે એક જ વાંધા-સૂચન પત્રક વાપરવું. એક જ વાંધા-સૂચન પત્રકમાં એકથી વધારે પ્રશ્નોની રજૂઆત કરેલ હશે તો તે અંગેના વાંધા-સૂચનો ધ્યાને લેવાશે નહીં.

001.	Zoonotic infections affecting numans are all except		
	(A) Plague	(B) Brucellosis	
	(C) Toxoplasmosis	(D) Measles	
002.	True about Bioweapons category A -		
	(A) These agents are highest priority pathogens which pose greatest risk to national security.		
	(B) Result in low mortality		
	(C) Do not cause social disruption		
	(D) None of the above		
003.	Re-emerging infections include		
	(A) MDRTB & XDRTB	(B) MRSA &VRSA	
	(C) Both (A) and (B)	(D) None of the above	
004.	Agents of food poisoning are all except-		
	(A) Staphylococcus aureus	(B) Vibrio Parahemolyticus	
	(C) Bacillus Cereus	(D) Coxiella Burnetii	
005.	Which parameter is not included in HAI s	surveillance?	
	(A) CA-UTI (catheter associated urinary tract infection)		
	(B) CLABSI (central line associated blood stream infection)		
	(C) VAP (ventilator associated pneumonia)		
	(D) Open wound infection		
006.	Which of the following is not Oncogenic virus?		
	(A) Hepatitis B virus	(B) Hepatitis C virus	
	(C) HIV	(D) Varicella-zoster virus	
007.	Hepatitis B vaccine should be given as per which schedule?		
	(A) 0, 1, 6 days	(B) 0, 1, 6 weeks	
	(C) 0, 1, 6 months	(D) 0, 1, 6 years	
008.	Which of the following is true about prions?		
	(A) Destroyed by autoclaving at 121°C	(B) Long incubation period	
	(C) Nucleic acid present	(D) Immunogenic	
009.	Morphology of Coronaviruses has all except		
	(A) Helical symmetry	(B) Linear, positive-sense ssRNA	
	(C) 120-160 nm size	(D) Segmented RNA virus	
010.	During the window period of patient with AIDS, best diagnostic test is:		
	(A) ELISA	(B) Western blot	
	(C) Rapid test	(D) RT-PCR	
011.	For the treatment of case of class Ill dog bite, all of the following are correct except:		
	(A) Give immunoglobulin for passive immunity		
	(B) Give anti-rabies vaccine		
	(C) Immediately stitch wound with antibiotic coverage		
	(D) Immediately was wound with soap and	d water	
012.	Kyasnur Forest disease is transmitted by:		
	(A) Mite	(B) Louse	
	(C) Tick	(D) Mosquito	

013.	Certificate of Yellow fever vaccination is valid upto		
	(A) 10 days	(B) 1 year	
	(C) 5 years	(D) 10 years	
014.	Not true about Salk vaccine is		
	(A) Expensive than OPV	(B) Not useful in epidemics	
	(C) Contraindicated in low immunity	(D) Booster doses are required	
015.	Which of the following statements concerni	ng antigenic drift in influenza viruses is correct?	
	(A) It results in major antigenic changes		
	(B) It is exhibited only by Influenza A virus	es	
	(C) It is due to frame shift mutation in viral genes		
	(D) It occurs frequently than antigenic shift	t	
016.	Transcription is the:		
	(A) Copying of DNA to RNA	(B) Changing of DNA to RNA	
	(C) Production of a complementary DNA	(D) Completion of a protein sequence	
017.	Why are CLSI-approved ATCC reference s	strains used for quality control?	
	(A) they are reasonably priced		
	(B) they are readily available from many laboratory vendors		
	(C) they produce reliable results over time		
	(D) they can be frozen		
018.	Which is a form of cold sterilization?		
	(A) Infra-red rays	(B) Steam sterilization	
	(C) Gamma rays	(D) UV rays	
019.	Enrichment broth is used to		
	(A) shorten incubation time by providing excess nutrients		
	(B) suppress normal flora to allow pathogens to grow		
	(C) detect small numbers of anaerobes		
	(D) increase the growth of fastidious organi	isms	
020.	Niesseria gonorrhoeae are capnophilic organisms and require:		
	(A) 5%-10% CO2, 15% O2	(B) 5%-10% H2, 0% O2	
	(C) 0.3% CO2, 21% O2	(D) 8%-10% CO2, 5%-10% O2	
021.	What is the stain that binds to the nucleic acid of organisms but does not discriminate between gram-positive or gram-negative organisms called?		
	(A) Ziehl-Neelsen stain	(B) Auramine-rhodamine stain	
	(C) Gram stain	(D) Acridine orange stain	
022.	What CO ₂ concentration is achieved when using a candle jar?		
	(A) 1%	(B) 3%	
	(C) 6%	(D) 9%	
023.	XLD (xylose-lysine-desoxycholate) agar:		
	(A) Inhibits many gram-negative bacilli that are not enteric pathogens		
	(B) Inhibits gram-positive organisms		
	(C) Contains a phenol red indicator that detects increased acidity from carbohydrate		
	(D) All of the above		

024.	Applications of nucleic acid-based methods:			
	(A) Direct detection of microorgani	isms in patient specimens		
	(B) Identification of microorganism	s grown in culture		
	(C) Characterization of microorgan	nisms beyond Identification		
	(D) All of the above			
025.	The purpose of Citrate utilization t	The purpose of Citrate utilization test is to identify organisms-		
	(A) capable of using sodium citrate	as the sole carbon source		
	(B) inorganic ammonium salts as the	ne sole nitrogen source		
	(C) Both (A) and (B)			
	(D) None of the above			
026.	Nested PCR: It is modification or PCR			
	(A) where two rounds of PCR amplif against two different DNA sequ	fication are carried out by using two primers that are targeted nences of same organism		
	(B) uses more than one primer whi one reaction	ch can detect many DNA sequences of several organisms in		
	(C) both of the above			
	(D) none of the above			
027.	Horizontal transmission of 'R' factor	or is by:		
	(A) Transduction	(B) Transformation		
	(C) Conjugation	(D) Fusion		
028.	Cholangiocarcinoma is associated v	vith chronic infection of :		
	(A) Paragonimus westermani	(B) Fasciola hepatica		
	(C) Clonorchis sinensis	(D) Schistosoma haematobium		
029.	Which of the following protozoa belongs to phylum Sporozoa?			
	(A) Giardia species	(B) Toxoplasma species		
	(C) Plasmodium species	(D) Entamoeba species		
030.	Which is not a feature of CSF in p	rimary amoebic meningoencephalitis?		
	(A) Purulent	(B) Lymphocytic leucocytosis		
	(C) High protein	(D) Low glucose content		
031.	Diagnosis of which of the following parasite uses Entero-Test?			
	(A) Cyclospora species	(B) Entamoeba histolytica		
	(C) Giardia lamblia	(D) Dientamoeba fragilis		
032.	Vector for leishmaniasis:			
	(A) Sandfly	(B) Reduviid bugs		
	(C) Tsetse fly	(D) Anopheles mosquito		
033.	Maurer's dots in red blood cells are	e seen in infection with:		
	(A) Plasmodium vivax	(B) Plasmodium falciparum		
	(C) Plasmodium malariae	(D) Plasmodium ovale		
034.	Most common manifestation of Tox	oplasma gondii in immunocompetent adult:		
	(A) Lymphadenopathy	(B) Chorioretinitis		
	(C) Myocarditis	(D) Eencephalitis		

035.	The largest protozoa parasitizing human intestine?		
	(A) Trichomonas hominis	(B) Balantidium coli	
	(C) Entamoeba coli	(D) Isospora	
036.	Which of the following cestode eggs are NO	Γ bile stained?	
	(A) Hymenolepis nana	(B) Diphyllobothrium latum	
	(C) Echinococcus granulosus	(D) Taenia solium	
037.	Humans acquire cysticercus cellulosae infection by all except:		
	(A) Ingestion of Contaminated vegetables	(B) Autoinfection	
	(C) Reverse peristalsis	(D) Ingestion of contaminated pig's meat	
038.	Carcinoma of urinary bladder is associated with which of the following parasites?		
	(A) Schistosoma japonicum	(B) Schistosoma mansoni	
	(C) Schistosoma haematobium	(D) Schistosoma intercalatum	
039.	Larva currens is caused by:		
	(A) Ascariasis	(B) Cutaneous larva migrans	
	(C) Strongyloidiasis	(D) Toxocara canis	
040.	All of the following nematodes are oviparous	s EXCEPT:	
	(A) Roundworm	(B) Strongyloides	
	(C) Hookworm	(D) Enterobius	
041.	Visceral larva migrans is caused by:		
	(A) Ancylostoma duodenale	(B) Necator americanus	
	(C) Ancylostoma caninum	(D) Toxocara canis	
042.	True about Anisakiasis is:		
	(A) Transmitted by ingestion of larvae found in saltwater fish and squid		
	(B) Transmitted by Ingestion of adult worm		
	(C) Marine mammals serve as intermediate host		
	(D) Transmitted by Ingestion of meat contain	ning eggs	
043.	Which of the following microfilaria comes to	peripheral blood in the day time?	
	(A) Wuchereria bancrofti	(B) Brugia malayi	
	C) Loa loa	(D) Brugia timori	
044.	Which of the following infection is eradicated from India?		
	(A) Wuchereria bancrofti	(B) Brugia malayi	
	(C) Dracunculus medinensis	(D) Ascaris lumbricoides	
045.	Flotation technique is useful for detection of:		
	(A) Fertilized eggs of Ascaris lumbricoides	(B) Larva of Strongyloides	
	(C) Taenia eggs	(D) Operculated eggs of trematodes	
046.	Boeck and Drbohlav's medium is used for the cultivation of:		
	A) Entameoba histolytica	(B) Leishmania donovani	
	(C) Malaria parasite	(D) Hookworm	
047.	One of the statement is not correct for PVA	(polyvinyl alcohol):	
	(A) Difficult to prepare	(B) Not good to preserve Giardia cyst	
	(C) Good for fecal immunoassay kits	(D) Contains mercury compounds	

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048.	Rat flea acts as vector for transmission for which of the following parasitic infection:	
	(A) Paragonimus westermani	(B) Hymenolepis diminuta
	(C) Echinococcus granulosus	(D) Diphyllobothrium latum
049.	The term premunition means-	
	(A) Immunity to re-infection lasts only a	as long as original infection remains active
	(B) Immunity to an infection is lifelong	
	(C) Resistance passively transferred to	baby from mother
	(D) Immunity developed in large proportion	rtion of population
050.	Which of the following is an example of heterophile reaction?	
	(A) Weil Felix reaction	
	(B) Paul-Bunnell test	
	(C) Cold agglutinin test in primary atyp	pical pneumonia
	(D) All of the above	
051.	Hereditary angioneurotic edema is associ	ciated with deficiency of
	(A) C3b inactivator	(B) C9
	(C) C1 inhibitor	(D) Components of classical pathway C1, C2, C4
052.	Megakaryocyte is a myeloid progenitor	of
	(A) Basophils	(B) Erythrocytes
	(C) Platelets	(D) Eosinophils
053.	Chediak Higashi syndrome is an abnor	mality of
	(A) Stem cell differentiation	(B) Congenital aplasia of thymus
	(C) Defective intracellular killing	(D) Defective phagocytosis
054.	Main source of Interferon beta is	
	(A) Leucocytes	(B) Fibroblast
	(C) T cells	(D) Macrophages
055.	Serum sickness is which type of hyperso	ensitivity reaction?
	(A) IgE type	(B) Cytotoxic and Cytolytic
	(C) Immune complex mediated	(D) Delayed hypersensitivity
056.	All of the following are tumor associated transplant antigens except:	
	(A) Prostate specific Antigen	(B) Carcinoembryonic antigen
	(C) CA 125	(D) Rituximab
057.	Endotoxin acts by:	
	(A) Classical pathway	(B) Lectin pathway
	(C) Alternative pathway	(D) None of the above
058.	In Chemiluminescence-linked immunoassay method visible effect is detected by-	
	(A) Spectrophotometer	(B) Luminometer
	(C) Gamma counter	(D) Electron microscope
059.	Northen blotting is used for separation	of
	(A) DNA	(B) RNA
	(C) Protein	(D) None of the above

060.	Prosodemic diseases referes to		
	(A) Disease that spread rapidly		
	(B) Disease that is constantly present in a pa	rticular area	
	(C) Disease that spreads to many areas of the world		
	(D) Disease that spreads person to person co	nact & evolve slowly	
061.	Staphylococcus aureus causes vomiting in 6-8	8 hours. The mechanism of action by:	
	(A) Stimulation of cAMP	(B) Vagal stimulation	
	(C) Stimulation of cGMP	(D) Acts through ganglioside GM receptor	
062.	Serotyping of Streptococcus pyogenes is based on which of the following protein?		
	(A) M protein	(B) T protein	
	(C) R protein	(D) Carbohydrate antigen	
063.	Carrom coin appearance of colonies is seen f	or:	
	(A) S. pyogenes	(B) Viridans streptococci	
	(C) S. agalactiae	(D) S. pneumonioe	
064.	All of the following are causative agents of N	GU (Non gonococcal urethritis) except:	
	(A) Chlamydia trachomatis	(B) Mycoplasma hominis	
	(C) Candida albicans	(D) Meningococci	
065.	Metachromatk granules diphtheriae can be s	stained special stains except:	
	(A) Neisser's stain	(B) Albert's stain	
	(C) Ziehl- Neelsen stain	(D) Ponder's stain	
066.	A "Malignant pustule" is a term used for:		
	(A) An infected malignant melanoma	(B) A carbuncle	
	(C) A rapidly spreading rodent ulcer	(D) Anthrax of the skin	
067.	Characteristic of anaerobic bacteria is:		
	(A) Foul smelling discharge	(B) Fail to grow in aerobic media	
	(C) Gas in tissue	(D) All of the above	
068.	Pseudomembranous colitis is caused by?		
	(A) Clostridium perfringens	(B) Clostridium diffidle	
	(C) Clostridium tetani	(D) Clostridium botulinum	
069.	Which of the following mycobacteria are microaerophilc?		
	(A) Mycobacterium tuberculosis	(B) Mycobacterium bovis	
	(C) Mycobacterium leprae	(D) None of the above	
070.	The generation time of lepra bacilli is:		
	(A) 20 minutes	(B) 2 hours	
	(C) 20 hours	(D) 12-13days	
071.	In erysipeloid, the route of infection is:		
	(A) Direct inoculation	(B) Ingestion	
	(C) Inhalation	(D) None of the above	
072.	Which of the following actinomycete is acid:	fast?	
	(A) Streptomyces	(B) Actinomodura	
	(C) Nocardia	(D) Actinomyces	

073.	Phenyl alanine deaminase test is characteristic of which of the following tribes of Enterobacteriaceae:		
	(A) Escherichieae	(B) Salmonelleae	
	(C) Yersinieae	(D) Proteae	
074.	Which of the following Shigella species	s is mannitol non fermenter?	
	(A) Shigella sonnei	(B) Shigella boydii	
	(C) Shigella dysenteriae	(D) Shigella flexneri	
075.	Bipolar staining is characterstic of:		
	(A) Yersinia pestis	(B) Shigella species	
	(C) Klebsiella oxytoca	(D) Proteus mirabilis	
076.	In a patient with typhoid, diagnosis after 15 days of onset of fever is best done by:		
	(A) Blood culture	(B) Stool culture	
	(C) Urine culture	(D) Widal test	
077.	Pathogenesis of V. cholerae involves on	Pathogenesis of V. cholerae involves one of the following second messenger systems:	
	(A) cGMP	(B) cAMP	
	(C) Ca ²⁺	(D) IP3	
078.	All of the following Vibrio species are	halophilic except:	
	(A) V. cholera	(B) V. parahaemolyticus	
	(C) V. alginolyticus	(D) V. vulnificus	
079.	Cause of melioidosis is:		
	(A) Burkholderia mallei	(B) Burkholderia pseudomallei	
	(C) Burkholderia cepacia	(D) None of the above	
080.	Ecthyma gangrenosum is caused by:		
	(A) Pseudomonas	(B) Bordetella	
	(C) Brucella	(D) H. influenzoe	
081.	Which of the following agent of meningitis can grow on chocolate agar but not on blood agar?		
	(A) Neisseria meningitides	(B) Haemophilus influenza	
	(C) Moraxella catarrhalis	(D) Escherichia coli	
082.	Chancroid, a sexually transmitted disea	ase, which presents as genital ulcer is caused by	
	(A) Haemophilus ducreyi	(B) Haemophilus aegyptius	
	(C) Haemophilus haernolyticus	(D) Haemophilus aphrophilus	
083.	Mercury drop appearance on Regan Lowe media is seen in colonies of		
	(A) Brucella melitensis	(B) Brucella abortus	
	(C) Bordetella pertussis	(D) Bordetella parapertussis	
084.	Malta fever is also called as:		
	(A) Undulant fever	(B) Relapsing fever	
	(C) Hemorrhagic fever	(D) Rat bite fever	
085.	All of the following serological tests we except:	would be helpful in the diagnosis of chronic brucellosis	
	(A) Standard agglutination test	(B) Mercaptoethanol test	
	(C) Complement ftxation test	(D) ELISA detecting lgG	

U80.	viost sensitive and accurate method of	diagnosis of Hencodacter pylori is:	
	(A) Culture Biopsy	(B) Urease test	
	(C) Histopathology	(D) Urea breath test	
087.	Most common mode of transmission of	f Legionella pneumophila is:	
	(A) Aspiration	(B) Insect bite	
	(C) Ingestion	(D) Blood	
088.	In Amsel's Criteria, Bacterial vaginosis	s is diagnosed if following finding is/are present:	
	(A) Presence of clue cells		
	(B) pH of vaginal discharge more than	4.5	
	(C) Accentuation of distinct fishy odor solution of KOH (Whiff test)	immediately after vaginal secretions is mixed with 10%	
	(D) All of the above		
089.	Weils disease is caused by:		
	(A) Leptospira interrogans	(B) Borrelia recurrentis	
	(C) Treponema carateum	(D) Treponema pallidum	
090.	Bejel is caused by:		
	(A) Borrelia recurrentis	(B) Treponema endemicum	
	(C) Trepanema pallidum	(D) Treponema carateum	
091.	Positive tunica reaction is produced by	all except:	
	(A) Rickettsia prowazekii	(B) Rickettsia typhi	
	(C) Rickettsia conorii	(D) Rickettsia akari	
092.	Weil Felix test-Rickettsial antibodies detected against Proteus OX 19, OX2 and OX K antigens, epidemic and endemic typhus is associated with		
	(A) Increase in OX 19 antibody	(B) Increase in OX 19 and OX 2 antibodies	
	(C) Increase in OX K antibody	(D) All of the above	
093.	Chlamydia exists in 2 morphological forms, elementary body & reticulate body. Features of elementary body are all except-		
	(A) Extracellular form	(B) Metabolically active	
	(C) Infectious form	(D) Nucleoid is electron dense	
094.	The most commonly used method for i	solation of Chlamydia:	
	(A) Culture on artificial media	(B) Culture on Vero cell line	
	(C) Inoculation into guinea pig	(D) Culture on McCoy cell line	
095.	Mycoplasmas are the smallest microbes capable of free living in the environment and self-replicating on artificial culture media. They have the following characteristics except:		
	(A) Pleomorphic	(B) Possess gliding motility	
	(C) Susceptible to beta lactams	(D) Contaminants of cell culture	
096.	Fried egg colonies are produced by:		
	(A) Bacillus cereus	(B) Haemophilus influenzae	
	(C) Neisseria subflava	(D) Mycoplasma pneumoniae	
097.	Brewer's yeast is a common name for-		
	(A) Pichia guillermondii	(B) Aspergillus niger	
	(C) Saccharomyces cerevisiae	(D) Penicillium notatum	

098.	are seen in	iches at end of hypna, resembling reindeer norn. The	
	(A) Trichophyton schoenleinii	(B) Trichophyton mentagrophyte	
	(C) Epidermophyton floccosum	(D) Trichophyton tonsurans	
099.	Mycotic diseases produced by Dimorphic	• •	
	(A) Histoplasmosis	(B) Blastomycosis	
	(C) Sporotrichosis	(D) Candidiasis	
100.	Exophiala dermatitidis is new name for	_	
	(A) Absidia corymbifera	(B) Acremonium kiliense	
	(C) Madurella grisea	(D) Wangiella dermatitidis	
101.	Melanin pigment is a surface component	virulence factor in this fungal pathogen-	
	(A) Aspergillus flavus	(B) Cryptococcus neoformans	
	(C) Rhizopus species	(D) Coccidioides	
102.	Production of pink color on CHROMaga	r indicates	
	(A) Candida albicans	(B) Candida krusei	
	(C) Candida tropicalis	(D) None of the above	
103.	Skin tests and fungal antigens used are co	orrectly matched in the following, except-	
	(A) Dermatophytoses – trichophytin	(B) Candidiasis – Candidin	
	(C) Histoplasmosis – Histoplasmin	(D) Blastomycosis – Caenorhabditin	
104.	Epidemiological markers used in fungal infection are all, excluding		
	(A) Phage typing	(B) Serotyping	
	(C) Nucleic acid probe	(D) Computed tomography	
105.	Antifungal antibiotic is		
	(A) Imidazole	(B) Tolnaftate	
	(C) Nystatin	(D) Itraconazole	
106.	Selenium sulfide is used in the treatment	of-	
	(A) Pityriasis versicolor	(B) Dandruff	
	(C) White piedra	(D) All of the above	
107.	Malassezia furfur is new nomenclature for	or-	
	(A) Malassezia ovalis	(B) Pityrosporum malassezii	
	(C) Pityrosporum ovale	(D) All of the above	
108.	Chromoblastomycosis is caused by		
	(A) Fonsecaea pedrosoi	(B) Phialophora verrucosa	
	(C) Both of the above	(D) None of the above	
109.	Black piedra is caused by		
	(A) Hortaea wernckii	(B) Curvularia lunata	
	(C) Piedraia hortae	(D) Scytalidium dimidiatum	
110.	Hematogenous dissemination seen in which	ch of the following Trichosporon species?	
	(A) Trichosporon ovoides	(B) Trichosporon inkin	
	(C) Trichosporon cutaneum	(D) Trichosporon asahii	

111.	Following is a geophilic fungi		
	(A) Trichophyton tonsurans	(B) Microsporum canis	
	(C) Microsporum persicolor	(D) Trichophyton nanum	
112.	The etiological agent of kerion celsi is/are	,	
	(A) Trichophyton verrucosum	(B) Trichophyton mentagrophyte	
	(C) Microsporum canis	(D) All of the above	
113.	Coral red color fluorescence is seen under	r Wood's lamp in	
	(A) Microsporum canis	(B) Malassezia furfur	
	(C) Corynebacterium minutissimum	(D) Trichophyton schoenleinii	
114.	Microconidia are absent in		
	(A) Trichophyton	(B) Microsporum	
	(C) Epidermophyton	(D) None of the above	
115.	Causative agent of Actinomycetoma is/arc	e –	
	(A) Streptomyces somaliensis	(B) Trichophyton mentagrophyte	
	(C) Both of the above	(D) None of the above	
116.	Causative bacteria of Botryomycosis is/are-		
	(A) Staphylococcus aureus	(B) Pseudomonas aeruginosa	
	(C) Actinobacillus lignieresi	(D) All of the above	
117.	Clinical manifestation of Rose Gardener disease is/are		
	(A) Lymphocutaneous sporotrichosis	(B) Fixed cutaneous sporotrichosis	
	(C) Extra cutaneous sporotrichosis	(D) All of the above	
118.	Chromoblastomycosis is described by presence of		
	(A) Sclerotic bodies	(B) Negri bodies	
	(C) Aster bodies	(D) None of the above	
119.	All are yeast or yeast like fungi except:		
	(A) Candida	(B) Geotrichum	
	(C) Cryptococcus	(D) Trichophyton	
120.	Organism that does not cause onychomycosis:		
	(A) Trichophyton	(B) Epidermophyton	
	(C) Microsporum	(D) Candida albicans	
121.	A patient coming from sub-Himalayan hilly area, presents with multiple skin lesions. Microscop reveals cigar shaped yeast cells and asteroid bodies. Microscopy of culture shows 'flower like pattern. Identify the agent.		
	(A) Candida	(B) Sporothrix schenckii	
	(C) Epidermophyton floccosum	(D) Rhizopus	
122.	Germ tube test is diagnostic for:		
	(A) Candida glabrata	(B) Candida olbicans	
	(C) Cryptococcus neoformans	(D) Coccidioides immitis	
123.	Example for fungus having branching, aseptate hyphae are all except:		
	(A) Rhizopus	(B) Absidia	
	(C) Penicillium	(D) Mucor	

124.	Most common fungus causing orbital cellulitis in a patient with diabetic ketoacidosis is:		
	(A) Mucor	(B) Aspergillus	
	(C) Candida	(D) Cryptococcus	
125.	Which one of the following antifungal drugs does not target the biosynthesis of ergosterol in the fungal membrane?		
	(A) Voriconazole	(B) Itraconazole	
	(C) Micafungin	(D) Terbinafine	
126.	Which one of the following pathogenic yeasts is not a common member of normal human flora or microbiota?		
	(A) Candida tropicalis	(B) Malassezia globosa	
	C) Cryptococcus neoformans	(D) Candida glabrata	
127.	Which statement regarding fungi is correct	?	
	(A) All fungi are able to molds		
	(B) Although fungi are eukaryotes, they lac	k mitochondria.	
	(C) Fungi are photosynthetic		
	(D) Fungi have one or more nuclei & chron	nosomes	
128.	The potassium hydroxide examination of sputum from a heart transplant patient with fever and pulmonary infiltrates contains oval budding yeast cells and pseudohyphae. What is the diagnostic significance?		
	(A) Aspergillosis	(B) Candidiasis	
	(C) Hyalohyphomycosis	(D) No diagnostic significance	
129.	A 24 year old, HIV negative migrant worker from Columbia presented with a painful ulcerative lesion on the tongue. The edge of the lesion was gently scraped and a calcofluor white- potassium hydroxide smear revealed tissue cells, debris and several large, spherical, multiply budding yeast cells. Based on this observation, what is the most likely diagnosis?		
	(A) Blastomycosis	(B) Candidiasis	
	(C) Histoplasmosis	(D) Paracoccidioidomycosis	
130.	Replication of which of the following require	res physical integration with a bacterial replicon?	
	(A) Single-stranded DNA bacteriophage	(B) Single-stranded RNA bacteriophage	
	(C) Plasmid	(D) Transposon	
131.	What is a characteristic of the adaptive im-	mune response and not of innate response?	
	(A) Physical barriers	(B) Clonal expansion of effector cells	
	(C) Inflammatory mediators	(D) Phagocytosis	
132.	Which class of antibody has the ability to cross placenta?		
	(A) IgG	(B) IgA	
	(C) IgM	(D) IgD	
133.	A 2 year old child with recurrent bacterial infections causing otitis media and pneumonia is most likely deficient in		
	(A) T cells	(B) Phagocytes	
	(C) B cells	(D) C1 esterase inhibitor	
134.	Superantigens are peptide toxins released from virulent strains of staphylococcal or streptococcal bacteria. To what entity do these superantigen bind in order to elicit their effect?		
	(A) TCR gamma chains	(B) TCR beta chain & MHC class II chain complex	
	(C) MHC class 1 molecule	(D) Peptide antagonist	

	(A) MHC class I molecule	(B) MHC class II molecule	
	(C) Cell adhesion molecule	(D) CD40 molecule	
136.	The first microorganism to satisfy Koch's po	stulate (in the late 19th century) was	
	(A) Treponema pallidum	(B) Mycobacterium leprae	
	(C) Bacillus anthracis	(D) Neisseria gonorrhoeae	
137.	Which of the following is most likely to be as	sociated with the formation of a bacterial biofilm?	
	(A) Airway colonization in cystic fibrosis patie	nt with a mucoid strain of Pseudomonas aeruginosa	
	(B) Urinary tract infection with Escherichia	coli	
	(C) Meningitis with Neisseria meningitides		
	(D) Tetanus		
138.	Which of the following best describes the mechanism of action of diphtheria toxin?		
	(A) Forms pores in red blood cells causing he	emolysis	
	(B) Degrades lecithin in eukaryotic cell mem	branes	
	(C) Inhibits elongation factor 2		
	(D) Causes increased adenylate cyclase activi	ity	
139.	Which of the following statement is correct?		
	(A) Lipopolysaccharide is a part of cell wall of Escherichia coli		
	(B) Cholera toxin is attached to the flagella of	of Vibrio cholera	
	(C) The lecithinase of Clostridium perfringer	ns causes diarrhea	
	(D) Toxic shock syndrome toxin l is produced by strains of Staphylococcus epidermidis		
140.	Which one of the following microorganisms can be a part of normal vaginal flora and cause meningitis in newborns?		
	(A) Candida albicans	(B) Corynebacterium species	
	(C) Staphylococcus epidermidis	(D) Group B streptococcus	
141.	Anaerobic bacteria such as Bacteroides fragilis occur in the sigmoid colon in a concentration of about 10 ¹¹ lg of stool. At what concentration do facultative organisms such as Escherichia coli occur?		
	(A) 10^{11} / g	(B) 10^{10} /g	
	(C) $10^9/g$	(D) $10^{7}/g$	
142.	Dental plaque and periodontal disease can physiological process?	be thought of as a continuum of what type of	
	(A) Biofilm formation	(B) Normal aging	
	(C) Exaggerated immune response	(D) Abnormal digestion	
143.	All of the following statement regarding Clostridium perfringens are correct except:		
	(A) It produces an enterotoxin		
	(B) It produces double zone of beta hemolysis when grown on blood agar		
	(C) It can cause intravascular hemolysis		
	(D) It is most common cause of antibiotic associated diarrhea		
144.	Movement of Listeria monocytogenes inside host cells is caused by		
	(A) Inducing host cell actin polymerization	(B) The formation of pili on the Listeriae surface	
	(C) Tumbling motility	(D) The motion of listeria flagella	

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[Contd.

NK cells express a killer immunoglobulin-like receptor which recognizes:

135.

AQI - MASTER]

145.	A group of six children under 8 years of age live in semitropical country. Each of the children has several crusted weeping skin lesions of impetigo. The lesions are predominantly on arms and faces. Which of the following microorganisms is a likely cause of the lesions?		
	(A) Escherichia coli	(B) Chlamydia trachomatis	
	(C) Staphylococcus aureus	(D) Streptococcus pneumoniae	
146.	Which of the following genera are typically resistant to vancomycin?		
	(A) Aerococcus	(B) Pediococcus	
	(C) Streptococcus	(D) Abiotrophila	
147.	Enterococci can be distinguished from non enterococcal Group D streptococci on the basis of which of the following charecterstics?		
	(A) Gamma hemolysis	(B) Esculin hydrolysis	
	(C) Growth in 6.5% NaCl	(D) Growth in presence of bile	
148.	Which of the following individual should routinely receive vaccination with the conjugate meningococcal vaccine?		
	(A) A healthy young adolescent entering high school		
	(B) A healthy child entering kindergarten		
	(C) A 60 year old man with insulin dependent diabetes		
	(D) A 65 year old woman with coronary artery disease		
149.	The definition of extensively drug resistant (XDR) tuberculosis includes :		
	(A) Resistance to isoniazid and rifampin		
	(B) Resistance to fluoroquinolone		
	(C) Resistance to capreomycin, amikacin and kanamycin		
	(D) Resistance to all of the above		
150.	Which of the following organism principally infects liver and kidney?		
	(A) Streptobacillus moniliformis	(B) Leptospira interrogans	
	(C) Enterococcus faecalis	(D) Treponema pallidum	
151.	Which of the following carbapenem antibiotics has no activity against Pseudomonas aeruginosa?		
	(A) Imipenem	(B) Meropenem	
	(C) Doripenem	(D) Ertapenem	
152.	All of the following are common mechanisms of resistance to penicillins except:		
	(A) Production of beta lactamase	(B) Alterations in target receptors (PBP)	
	(C) Inability to activate autolytic enzymes	(D) Methylation of ribosomal RNA	
153.	Which one of the following can be used to quantitate the infectious titer of virus?		
	(A) Plaque assay	(B) Electron microscopy	
	(C) Haemagglutination	(D) Enzyme immunoassay	
154.	Laboratory infections can be acquired when working with viruses unless good laboratory safety practices are followed. Which of the following is not a good biosafety practice?		
	(A) Use of aseptic techniques		
	(B) No pipetting by mouth		
	(C) Flushing experimental waste down laboratory sink		
	(D) No eating or drinking in the laboratory		

155.	Human bocavirus is a parvovirus. It has bee	n detected most frequently in which type of sample?	
	(A) Urine	(B) Cord blood	
	(C) Respiratory secretions	(D) Fetal liver	
156.	Which of the following events led to reappearance of acute respiratory disease outbreak among U.S military recruits in the late 1990s?		
	(A) Emergence of a new virulent strain of adenovirus		
	(B) Cessation of adenovirus vaccination program for recruits		
	(C) Change in military housing & training conditions for recruits		
	(D) Cessation of antiviral adenovirus drug therapy program for recruits		
157.	Which one of the following is a recommended therapy for HSV genital infection?		
	(A) Acyclovir	(B) Herpes immune globulin	
	(C) Interferon alpha	(D) Ribavirin	
158.	Which of the following pox infects only humans?		
	(A) Monkeypox	(B) Molluscum contagiosum	
	(C) Tanapox	(D) Yaba tumor virus	
159.	Which of the following properties of enteroviruses is not shared by rhinoviruses?		
	(A) Single stranded RNA genome	(B) Resistance to lipid solvent	
	(C) Stability at acid pH (pH 3.0)	(D) Icosahedral symmetry	
160.	Rabies virus is rapidly destroyed by		
	(A) Ultraviolet radiation	(B) Heating at 56°C for 1 hour	
	(C) Ether treatment	(D) All of the above	
161.	Which of the following statement is true?		
	(A) Zika virus disease is transmitted by bite of Aedes mosquito		
	(B) Zika virus disease can be transmitted sexually		
	(C) Zika virus can be transmitted from pregnant mother to foetus		
	(b) All of the above		
162.	What is the acceptable limit of bacterial cou	unt in air in operation theatre?	
	(A) 50 per cubic feet	(B) 10 per cubic feet	
	(C) 4 per cubic feet	(D) 1 per cubic feet	
163.	Drinking water is considered satisfactory if the presumptive coliform count of water is:		
	(A) 0/100mL	(B) 1-3/100mL	
	(C) 4-10/100mL	(D) $> 10/100 \text{ mL}$	
164.	Minimum inhibitory concentration of an antibiotic can be detected by:		
	(A) Broth dilution method	(B) Epsilometer test	
	(C) Both of the above	(D) None of the above	
165.	At what age first dose of Vitamin A is given?		
100.	(A) 6 weeks	(B) 6 months	
	(C) 7 months	(D) 9 months	
166.	Specific immunoglobulins are available for		
-	(A) Tetanus	(B) Hepatitis B infection	
	(C) Rabies	(D) All of the above	

167.	Which of the following bacteria can cause infection in hospitalized burn patients?		
	(A) Pseudomonas aeruginosa	(B) Staphylococcus aureus	
	(C) Acinetobacter species	(D) All of the above	
168.	Which of the following organism can cause painless genital infection?		
	(A) Treponema pallidum	(B) Chlamydia trachomatis	
	(C) Klebsiella granulomatis	(D) All of the above	
169.	Which is the commonest etiological agent of endocarditis associated with intravenous drug abusers?		
	(A) Staphylococcus aureus	(B) Staphylococcus epidermidis	
	(C) Aspergillus fumigatus	(D) Streptococcus agalactiae	
170.	What is significant bacteriuria?		
	(A) Bacterial count > 10 ⁵ per mL	(B) Bacterial count $< 10^4$ per mL	
	(C) Bacterial count 10 ⁴ to 10 ⁵ per mL	(D) None of the above	
171.	Ergot alkaloids are produced by		
	(A) Aspergillus flavus	(B) Fusarium nivale	
	(C) Claviceps purpurae	(D) Penicillium rubrum	
172.	Which of the following fungi has not been cultured?		
	(A) Sporothrix	(B) Rhinosporidium	
	(C) Acremonium	(D) Blastomyces	
173.	Who discovered prions?		
	(A) Carlton Gajdusek	(B) Stanley B Prusiner	
	(C) Sigurdsson	(D) Karry B Mullis	
174.	What is the relative risk of transmission of HIV by the sexual contact?		
	(A) 0.1-1.0% per exposure	(B) 2-20% per exposure	
	(C) 30-50% per exposure	(D) 50-90% per exposure	
175.	Subacute sclerosing panencephalitis may occur as complication in:		
	(A) Mumps	(B) Measles	
	(C) Rubella	(D) Respiratory syncytial virus	
176.	Which of the following bacteria requires microaerophilic environment for primary isolation?		
	(A) Mycobacterium tuberculosis	(B) Mycobacterium bovis	
	(C) Both of the above	(D) None of the above	
177.	The causative agent of Pontaic fever is:		
	(A) Legionella pneumophila	(B) Yersinia pseudotuberculosis	
	(C) Pseudomonas putida	(D) Francisella tularensis	
178.	'Safety pin appearance' on methylene blue staining is characteristic feature of:		
	(A) Yersinia pestis	(B) Pseudomonas aeruginosa	
	(C) Burkholderia mallei	(D) Burkholderia pseudomallei	
179.	Which of following bacteria is non-motile	?	
	(A) Pseudomonas stutzeri	B) Burkholderia mallei	
	(C) Burkholderia pseudomallei	(D) Stenotrophomonas maltophila	

180.	Which antibody is responsible for systemic lupus erythematosus?		
	(A) Antiplatelet antibodies	(B) Antibasement membrane antibodies	
	(C) Antinuclear antibodies	(D) None of the above	
181.	Shwartzman reaction is an example of:		
	(A) Type I hypersensitivity reaction	(B) Type II hypersensitivity reaction	
	(C) Type III hypersensitivity reaction	(D) None of the above	
182.	Which of the following HLA types is associated with rheumatoid arthritis?		
	(A) HLA-B27	(B) HLA-A1	
	(C) HLA-DR4	(D) None of the above	
183.	Codes of modern medical ethics include		
	(A) Hippocratic oath	(B) Declaration of Geneva	
	(C) Declaration of Tokyo	(D) All of the above	
184.	The Indian Medical Council (amendment) act was passed in		
	(A) 1964	(B) 1933	
	(C) 1947	(D) 1921	
185.	Recognition of foreign medical degrees are governed by Indian Medical Council act 1956, under the following section/s		
	(A) Section 12	(B) Section 13 (4)	
	(C) Both (A) and (B)	(D) None of the above	
186.	All of the following are examples of privileged communication except		
	(A) A hotel waiter diagnosed as typhoid carrier		
	(B) A barmaid diagnosed of open case of tuberculosis		
	(C) A railway engine driver who is colorblind		
	(D) Regarding a married women pregnancy as illegitimate and informing to relatives		
187.	According to doctrine of emergency, a doctor can provide treatment without prior consent from patient who is gravely sick, unconscious or mentally ill, under which section?		
	(A) Section 92 of IPC	(B) Section 31 of IPC	
	(C) Section 104 of IPC	(D) Section 40 of IPC	
188.	Examples of doctrine of res ipsa loquitor in malpraxis are following except		
	(A) Mismatched blood transfusion	(B) Giving medicine in heavy dose	
	(C) Giving injection in wrong site/route	(D) Promising 100 per cent cure	
189.	The existing AIDS law in India consist of		
	(A) State amendments and a proposed central bill		
	(B) AIDS prevention bill		
	(C) Section 4, 7, 5, 5 (c)		
	(D) All of the above		
190.	Integrationist response to tackle AIDS, proposed by WHO, adopted by US and UK includes 3 specific features, except		
	(A) No compulsory testing		
	(B) Protecting through confidentiality		
	(C) Ensuring nondiscrimination against them		
	Mandatory testing		

191.	Recommended type of personal protective equipment in context of Covid-19 disease for healtl care worker performing Aerosol generating procedures on Covid-19 patients include all excep	
	(A) FFP2 mask	(B) Gloves and face shield
	(C) Long sleeved water resistant gown	(D) Surgical mask
192.	Steps involved in convalescent plasma the	erapy include all, except-
	(A) Blood is collected and run through a machine to separate antibody containing plasma in process called apheresis	
	(B) Convalescent plasma is collected and rest of the blood is returned to donor body	
	(C) Convalescent plasma is given to COVID-19 patients through intravenous transfusion to deliver antibodies through blood.	
	(D) Plasma can be collected only from healthy individuals who are never exposed to the Covid 19 infection.	
193.	Death certificate data can be used locally	
	(A) to guide disease surveillance	(B) quarantine measures
	(C) optimize medical resources	(D) all of the above
194.	Bacteriophages were discovered by	
	(A) d'Herelle	(B) W.H Welch
	(C) Kitasato	(D) Bruce
195.	Barbara McClintoch, Nobel laureate, her contribution in Microbiology is-	
	(A) Discovered mobile genetic element (transposon)	
	(B) Invented polymerase chain reaction	
	(C) Discovered genetic code	
	(D) Discovered HLA antigen	
196.	Resolution power of electron microscope is	
	(A) 0.2 mm	(B) 0.5mm
	(C) 0.5nm	(D) 1mm
197.	Generation time of Mycobacterium leprae is-	
	(A) 20 minutes	(B) 20 days
	(C) 20 hours	(D) 20 seconds
198.	Lithotrophs are the bacteria that obtain	
	(A) Reducing equivalents (electrons) from inorganic compounds	
	(B) Reducing equivalents (electrons) from organic compounds	
	(C) Obtain energy from light	
	(D) Both (A) and (B)	
199.	Property responsible for bleaching is	
	(A) Oxidation	(B) Conjugation
	(C) Precipitation	(D) Septication
200.	All of the following are exotoxins except:	_
	(A) Botulinum toxin	(B) Anthrax toxin
	(C) Dinhtheria toxin	D linid A portion of linopolysaccharide