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PROVISIONAL ANSWER KEY (CBRT)

Name of The Post	Associate Professor, Microbiology, General State Service, Class-1 (Special Recruitment)
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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 નીચેની સૂચનાઓનું પાલન કરવાની તકેદારી રાખવી, અન્યથા વાંધા-સૂચન 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 વેબસાઈટ પર પ્રસિધ્ધ થયેલ નિયત વાંધા-સૂચન પત્રકના નમૂનાનો જ ઉપયોગ કરવો.
- (3) ઉમેદવારે પોતાને પરીક્ષામાં મળેવ પ્રશ્નપુસ્તિકામાં છપાયેવ પ્રશ્નક્રમાંક મુજબ વાંધા-સૂચનો રજૂ ન કરતા તમામ વાંધા-સૂચનો વેબસાઈટ પર પ્રસિધ્ધ થયેવ પ્રોવિઝનવ આન્સર કી (માસ્ટર પ્રશ્નપત્ર)ના પ્રશ્ન ક્રમાંક મુજબ અને તે સંદર્ભમાં રજૂ કરવા.
- (4) માસ્ટર પ્રશ્નપત્ર માં નિર્દિષ્ટ પ્રશ્ન અને વિકલ્પ સિવાયના વાંધા-સૂચન ધ્યાને લેવામાં આવશે નહીં.
- (5) ઉમેદવારે જે પ્રશ્નના વિકલ્પ પર વાંધો રજૂ કરેલ છે અને વિકલ્પ રૂપે 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.	Unaided human eye has resolution power of:	
	(A) 0.2 mm	(B) 0.2 μm
	(C) 0.2 nm	(D) 0.5 mm
002.	Which one of the following Bacteria is Cell v	vall deficient ?
	(A) Escherichia coli	(B) Mycoplasma
	(C) Salmonella typhi	(D) Treponema palidum
003.	Staphylococcal scalded skin syndrome is cause	sed by –
	(A) Hemolysin	(B) Coagulase
	(C) Enterotoxin	(D) Epidermolytic toxin
004.	Staphylococcus aureus causes vomiting in 6-8	8 hours. The mechanism of action is:
	(A) Stimulation of cAMP	(B) Vagal stimulation
	(C) Stimulation of cGMP	(D) Acts through ganglioside GM receptor
005.	All can be given in MRSA except?	
	(A) Cotrimoxazole	(B) Cefaclor
	(C) Vancomycin	(D) Teicoplanin
006.	The survival of Mycobacteria after ingestion	by macrophages is attributed to:
	(A) Bacterial inhibition of complement activa	ation via the alternative pathway.
	(B) Bacterial inhibition of phagolysosom acidification.	e formation and interference with endosomal
	(C) The poor immunogenicity of the cell wall	l glycolipids.
	(D) The bacterium's rapid escape from the e	ndosome into the cytoplasm of infected cells.
007.	A patient has prosthetic valve replacement and responsible is?	he develops endocarditis 8 months later. Organism
	(A) Staphylococcus aureus	(B) Streptococcus viridans
	(C) Staphylococcus epidermidis	(D) HACEK
008.	Serotyping of Streptococcus pyogenes is based	d on which of the following protein?
	(A) M protein	(B) T protein
	(C) R protein	(D) Carbohydrate antigen
009.	Streptococcus pyogenes can be differentiated	from Streptococcus agalactiae by:
	(A) Optochin sensitivity	(B) Bacitracin sensitivity
	(C) Polymyxin sensitivity	(D) Novobiocin sensitivity
010.	CAMP test is useful in identification of:	_
	(A) S. Pyogenes	(B) S. Agalactiae
	(C) Viridans streptococci	(D) S. Pneumoniae
011.	Which is a poststreptococcal sequelae:	
	(A) Acute rheumatic fever	(B) Cellulitis
	(C) Pharyngitis	(D) Impetigo
012.	Neonatal meningitis acquired through infecte	ed birth canal is due to:
	(A) S. Pyogenes	(B) Viridans streptococci
	(C) S. Agalactiae	(D) S. Pneumoniae

013.	Carrom coin appearance of colonies is see	en for:
	(A) S. Pyogenes	(B) Viridans streptococci
	(C) S. Agalactiae	(D) S. Pneumoniae
014.	Which is not a property of S. pneumonia	e?
	(A) Bile solubility	(B) Animal pathogenicity in mice
	(C) Growth in presence of 40% bile	(D) Optochin sensitivity
015.	The most common mode of transmission	of gonorrhea is:
	(A) Venereal mode	(B) Injection
	(C) Blood transfusion	(D) Inhalation
016.	All of the following are causative agents o	of NGU except:
	(A) Chlamydia trachomatis	(B) Mycoplasma hominis
	(C) Candida albicans	(D) Meningococci
017.	All of the following meningococcal serogr	oups cause invasive disease except:
	(A) W135	(B) A
	(C) D	(D) Y
018.	Gonococci can be differentiated by meni	ngococci by following sugar fermentation test:
	(A) Glucose	(B) Sucrose
	(C) Mannitol	(D) Maltose
019.	Selective media for C. diphtheriae:	
	(A) Nutrient agar	(B) Chocolate agar
	(C) TCBS agar	(D) Potassium tellurite agar
020.	Which of the following site is most comm	oonly affected by C. diphtheriae?
	(A) Skin	(B) Conjunctiva
	(C) Faucial	(D) Kidney
021.	Diphtheriae can be stained by all of the fol	<i>llowing</i> special stains except:
	(A) Neisser's stain	(B) Ziehl–Neelsen stain
	(C) Albert's stain	(D) Ponder's stain
022.	Gram-stain morphology of Bacillus anthr	racis is:
	(A) Tennis racket appearance	(B) Drum stick appearance
	(C) Bamboo stick appearance	(D) Spectacle glass appearance
023.	"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
024.	Incubation period for <i>B. cereus</i> food poi rice:	isoning following consumption of contaminated fried
	(A) 1 – 5 hours	(B) 8 – 16 hours
	(C) 24 hours	(D) > 24 hours
025.	Characteristic of anaerobic bacteria is:	
	(A) Foul smelling discharge	(B) Fail to grow in aerobic media
	(C) Gas in tissue (Crepitus)	(D) All of the above

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026.	Principle toxin responsible for gas gangrene is:	
	(A) Alpha toxin	(B) Theta toxin
	(C) Beta toxin	(D) Delta toxin
027.	Site of action of tetanus toxin:	
	(A) Presynaptic terminal of spinal cord	(B) Postsynaptic terminal of spinal cord
	(C) Neuromuscular junction	(D) Muscle fibers
028.	The most effective way of preventing tetanu	15:
	(A) Hyperbaric oxygen	(B) Antibiotics
	(C) Tetanus toxoid	(D) Surgical debridement and toilet
029.	Pseudomembranous colitis is caused by?	
	(A) Clostridium perfringens	(B) Clostridium difficile
	(C) Clostridium tetani	(D) Clostridium botulinum
030.	Humans become infected by M. Tuberculosi	is commonly by:
	(A) Ingestion	(B) Contact
	(C) Inhalation	(D) Inoculation
031.	Spoligotyping typing used for	
	(A) S. Typhi	(B) M. Tuberculosis
	(C) S. Aureus	(D) V. Cholera
032.	A positive tuberculin test is indicated by an	area of induration of:
	(A) < 5 mm in diameter	(B) 6 – 9 mm in diameter
	(C)≥ 10 mm in diameter	(D) No induration
033.	33. Which of the following mycobacteria produces Buruli ulcer?	
	(A) M. kansasii	(B) M. tuberculosis
	(C) M. ulcerans	(D) M. marinum
034.	Fish tank granuloma is caused by:	
	(A) M. kansasii	(B) M. fortuitum
	(C) M. marinum	(D) M. ulcerans
035.	The generation time of lepra bacilli is:	
	(A) 20 minutes	(B) 2 hours
	(C) 20 hours	(D) 12 – 13 days
036.	Early onset neonatal disease caused by Liste	eriamonocytogenes is characterized by all except:
	(A) Acquired from maternal genital flora	(B) Presents as neonatal sepsis
	(C) Mortality rate is less than 10%	(D) Does not cause nosocomial outbreaks
037.	In erysipeloid, the route of infection is:	
	(A) Direct inoculation	(B) Ingestion
	(C) Inhalation	(D) None of the above
038.	Which of the following actinomycete is acid	fast?
	(A) Streptomyces	(B) Actinomadura
	(C) Nocardia	(D) Actinomyces

039.	Culture media used for diagnosis of EHEC O157:H7 is:	
	(A) O7 culture	(B) Sorbitol MacConkey media
	(C) XLD agar	(D) Deoxycholate media
040.	. Most common cause of community-acquired urinary tract infection is:	
	(A) E. Coli	(B) Proteus
	(C) Pseudomonas	(D) Klebsiella
041.	Phenyl alanine deaminase test is chara Enterobacteriaceae:	cteristic of which of the following tribes of
	(A) Escherichieae	(B) Salmonelleae
	(C) Yersinieae	(D) Proteeae
042.	Which of the following Shigella species is m	annitol nonfermenter?
	(A) S. sonnei	(B) S. boydii
	(C) S. dysenteriae	(D) S. flexneri
043.	Plague is transmitted by:	
	(A) Rat flea	(B) Soft tick
	(C) Hard tick	(D) Louse
044.	Bipolar staining is characteristic of:	
	(A) Yersinia pestis	(B) Shigella
	(C) Klebsiella	(D) Proteus
045.	All of the following salmonellae are motile e	xcept:
	(A) S. typhi	(B) S. enteritidis
	C) S. gallinarum	(D) S. paratyphi A
046.	S. Typhi is the causative agent of typhoid fever. The infective does of S. Typhi:	
	(A) One bacillus	(B) 10 ³ – 10 ⁶ bacilli
	(C) 10 ⁸ – 10 ¹⁰ bacilli	(D) 1–10 bacilli
047.	Which of the following media can be used as	s transport medium for vibrios?
	(A) Selenite F broth	(B) Nutrient broth
	(C) Tetrathionate broth	(D) Venkatraman – Ramakrishnan medium
048.	All of the following tests can differentiate be except:	etween classical and El Tor biotypes of <i>V. cholerae</i>
	(A) β hemolysis on sheep blood agar	(B) Chick erythrocyte agglutination
	(C) Growth on TCBS agar	(D) Polymyxin B (50 IU)
049.	Pathogenesis of V. cholerae involves one of the	he following second messenger systems:
	(A) cGMP	(B) cAMP
	(C) Ca^{2+}	(D) IP3
050.	Ecthyma gangrenosum is caused by:	
	(A) Pseudomonas	(B) Bordetella
	(C) Brucella	(D) H. Influenzae

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051.	Drugs used in Pseudomonas treatment:	
	(A) Vancomycin	(B) Ceftazidime
	(C) Ampicillin	(D) Cotrimoxazole
052.	Cause of melioidosis is:	
	(A) Burkholderia mallei	(B) Burkholderia pseudomallei
	(C) Burkholderia cepacia	(D) None of the above
053.	Which of the following bacteria known as k	Koch-Weeks bacillus?
	(A) Neisseria meningitides	(B) Haemophilus aegyptius
	(C) Moraxella catarrhalis	(D) Escherichia coli
054.	Haemophilus influenzae grows on all of the	following media except:
	(A) Chocolate agar	(B) Fildes' agar
	C Nutrient agar	(D) Blood agar with S. aureus streak line
055.	HACEK group includes all except:	_
	(A) Kingella kingae	(B) Haemophilus influenzae
	(C) Eikenella corrodens	(D) Cardiobacterium hominis
056.	Mercury drop appearance colony of <i>B. pertus</i>	ssis is seen on which of the following culture media?
	(A) Blood agar	(B) Chocolate agar
	(C) Regan-Lowe agar	(D) Nutrient agar
057.	Pertussis toxin is produced by:	
	(A) B. pertussis	(B) B. parapertussis
	(C) B. avium	(D) B. bronchiseptica
058.	Which is the highly infective stage in whoop	ing cough?
	(A) Catarrhal stage	(B) Paroxysmal stage
	(C) Convalescent stage	(D) All of the above
059.	Malta fever is also called as:	
	(A) Undulant fever	(B) Relapsing fever
	(C) Hemorrhagic fever	(D) Rat bite fever
060.	All of the following serological tests would except:	be helpful in the diagnosis of chronic brucellosis
	(A) Standard agglutination test	(B) MAT Test
	(C) Complement fixation test	(D) ELISA detecting IgG
061.	Most common mode of transmission of <i>Legi</i>	onella pneumophila is:
	(A) Aspiration	(B) Ingestion
	(C) Insect bite	(D) Blood
062.	Rat bite fever is caused by:	_
	(A) Borrelia recurrentis	(B) Streptobacillus moniliformis
	(C) Yersinia pestis	(D) Leptospira
063.	Wrong about Bacterial vaginosis is:	
	(A) Discharge has offensive smell	(B) pH >4.5
	(C) Causative agent is Chlamydia	(D) Clue cell is diagnostic

064.	Weil's disease is caused by:	
	(A) Leptospira interrogans	(B) Borrelia recurrentis
	(C) Treponema carateum	(D) Treponema pallidum
065.	Pinta is caused by:	
	(A) Borrelia recurrentis	(B) Treponema endemicum
	(C) Treponema pallidum	(D) Treponema carateum
066.	All of the following rickettsiae belong to spo	tted fever group, <i>except:</i>
	(A) R. rickettsii	(B) R. conorii
	(C) R. typhi	(D) R. akari
067.	Tick is the vector for following rickettsial in	fections, <i>except:</i>
	(A) R. rickettsii	(B) R. akari
	(C) R. africae	(D) R. conorii
068.	All are true about Coxiella burnetii, except:	
	(A) It is obligate intracellular	
	(B) It causes 'Q fever'	
	(C) It is extremely fastidious	
	(D) It is killed by Holder's method of pasteu	rization
069.	Cat scratch disease caused by :	
	(A) Bartonella henselae	(B) Bartonella quintana
	(C) Brucella	(D) Bordetella
070.	All of the following are true about Chlamyd	-
	(A) Elementary body is metablically active	
	(C) Reticulate body is intracellular form	(D) Elementary body is infectious form
071.	The most commonly used method for isolation	·
	(A) Culture on artificial media	(B) Culture on Vero cell line
	(C) Inoculation into guinea pig	(D) Culture on McCoy cell line
072.	The diagnostic assays of choice for chlamyd	
	(A) Direct immunofluorescence test (DIF)	(B) Culture on McCoy cell line
	(C) Nucleic acid amplification tests (NAAT)	(D) Microimmunofluorescence (MIF) test
073.	Which is not a property of <i>Mycoplasma?</i>	
	(A) Susceptibility to beta lactams	(B) They are pleomorphic
054	(C) Can grow in cell-free media	(D) Extracellular survival
074.	The agent of primary atypical pneumonia is	
	(A) H. Influanze	(B) Klebsiella pneumoniae
075	(C) Mycoplasma pneumoniae	(D) Streptococcus pneumoniae
075.	Fried egg colonies are produced by:	(D) Hoomonkilus in guarda
	(A) Bacillus cereus	(B) Haemophilus influenzae
	(C) Neisseria subflava	(D) Mycoplasma pneumoniae

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076. Which culture medium is preferred for processing of urine specimens? (A) TCBS agar (B) CLED agar (C) Chocolate agar (D) XLD agar 077. Naturally acquired active immunity would be most likely acquired through which of the following processes? (A) Vaccination **(B)** Drinking Colostrum (C) Natural birth (D) Infection with disease causing organism followed by recovery 078. 53-year old woman presents with headache, vomiting, and neck rigidity. Indian ink staining of CSF reveals spherical budding yeast cells with clear halo surrounding. What is the etiological agent? (A) Neisseria (B) Haemophilus (C) Cryptococcus **(D)** Streptococcus 079. Biochemical analysis of pyogenic meningitis reveals all of the following, except: (A) CSF pressure: highly elevated (B) Total leukocyte count: Highly elevated, neutrophilic (C) Glucose: highly elevated (D) Total proteins: markedly increased 080. CURB-65 score is used for prediction of prognosis in: (A) Ventilator-associated pneumonia **(B)** Upper respiratory tract infections **(D)** Tuberculosis (C) Community-associated pneumonia 081. Clinical-pulmonary infection score (CPIS) is used for: (A) Ventilator-associated pneumonia **(B)** Upper respiratory tract infections (C) Community-associated pneumonia **(D)** Tuberculosis 082. All of the following are true with respect to IgM antibodies EXCEPT: (A) They are glycoproteins (B) They fix complement (C) They mediate allergic reaction (D) They occur on the surface of lymphocytes 083. The agent of malignant otitis externa is: **(B)** Pseudomonas species (A) Staphylococcus aureus (C) Streptococcus pyogenes (D) Candida species 084. Which of the following sexually transmitted infection produces painful genital ulcers and painful lymph nodes? (A) Syphilis **(B)** Chancroid **(D)** Donovanosis (C) Gonorrhea 085. All are yeast or yeast like fungi except: (B) Sacharomyces cerevisiae (A) Candida **(D)** Trichophyton (C) Cryptococcus 086. Fungi which do not have sexual stage: (A) Zygomycota **(B)** Ascomycota (C) Basidiomycota **(D)** Fungi imperfecti

087.	Organism that does not affect nail:	
	(A) Trichophyton violaceum	(B) Epidermophyton
	(C) Microsporum	(D) Trichophyton rubrum
088.	An epitope is	
	(A) B cell	(B) Hapten
	(C) An antibody	(D) The antigen determinant site
089.	Dermatophyte infecting hair & skin only :	
	(A) Microsporum	(B) Trichophyton
	(C) Epidermophyton	(D) All of the above
090.	Chromoblastomycosis is caused by:	
	(A) Epidermophyton	(B) Histoplasma
	(C) Phialophora verrucosa	(D) Penicillium
091.	Which of the following organism is not bee	n isolated in artificial culture media?
	(A) Cryptococcus neoformans	(B) Rhinosporidium seeberi
	(C) Aspergilus species	(D) Candida species
092.	Most common fungus causing orbital cellul	itis in a patient with diabetic ketoacidosis is:
	(A) Mucor	(B) Aspergillus
	(C) Candida	(D) Cryptococcus
093.	Fluorescent dye used for detection of fungi	in tissue specimen is:
	(A) Methenamine silver stain	(B) Calcofluor white
	(C) Hematoxylin and Eosin staining	(D) India ink
094.	Which of the following is added in Sabou contaminating (saprophytic) fungi and bac	raud's Dextrose Agar to suppress the growth of teria?
	(A) Cycloheximide	(B) Chloramphenicol
	(C) Gentamicin	(D) All of the above
095.	Tinea versicolor is caused by:	
	(A) Candida albicans	(B) Trichophyton rubrum
	(C) Trichophyton violaceum	(D) Malassezia furfur
096.	Broad-based budding is seen in:	_
	(A) Histoplasma	(B) Blastomyces
	(C) Cryptococcus	(D) Penicillium
097.	Aflatoxin is produced by:	
	(A) Aspergillus flavus	(B) Histoplasma
	(C) Sporothrix schenckii	(D) Penicillium marneffei
098.	Spherules are seen in:	_
	(A) Chromoblastomycosis	(B) Rhinosporidiosis
	(C) Mucormycosis	(D) Aspergillosis
099.	Barrel-shaped arthroconidia are seen in:	
	(A) Histoplasmosis	(B) Cryptococcosis
	C) Coccidioidomycosis	(D) Paracoccidioidomycosis

100.	Sclerotic bodies are seen in:	
	(A) Mucormycosis	(B) Aspergillosis
	(C) Rhinosporidiosis	(D) Chromoblastomycosis
101.	Spaghetti and meatball appearance is seen i	in:
	(A) Hortaea werneckii	(B) Trichosporon beigelii
	(C) Piedraia hortae	(D) Malassezia furfur
102.	The drug of choice for Pneumocystis pneum	ionia is:
	(A) Amphotericin B	(B) Flucytosine
	(C) Cotrimoxazole	(D) Voriconazole
103.	Sickle-shaped large macroconidia is seen in	:
	(A) Microsporum	(B) Epidermophyton
	(C) Fusarium species	(D) Pneumocystis jirovecii
104.	The cysts resemble crushed ping-pong balls	is seen with:
	(A) Microsporum	(B) Pneumocystis jirovecii
	(C) Epidermophyton	(D) Fusarium species
105.	Azole active against mucormycosis is:	
	(A) Voriconazole	(B) Fluconazole
	(C) Itraconazole	(D) Posaconazole
106.	Candida species resistant to azoles is:	
	(A) C. albicans	(B) C. krusei
	(C) C. tropicalis	(D) C. dubliniensis
107.	Pasteurized Milk is most commonly tested b	by:
	(A) Phosphatase test	(B) Coliform test
	(C) Catalase test	(D) Oxidase test
108.	Phage mediated transfer of cDNA into host	is known as:
	(A) Transduction	(B) Transformation
	(C) Transmission	(D) Conjugation
109.	Movement of DNA from one bacteria to and	other connection tube or pilus is called:
	(A) Transformation	(B) Transduction
	(C) Conjugation	(D) Lysogenic conversion
110.	The mechanism of action of vancomycin is	inhibition/alteration of:
	(A) Cell wall synthesis	(B) mRNA synthesis
	(C) Cell membrane integrity	(D) Protein synthesis via 50s ribosomal subunit
111.	All of the following are diffusion methods for	or antibiotic sensitivity except:
	(A) E test	(B) Stokes
	(C) Kirby Bauer's disk diffusion method	(D) Broth dilution method
112.	For antibiotic sensitivity test, the organism	broth prepared should match with
	(A) McFarland standard 0.5	(B) McFarland standard 1
	(C) McFarland standard 2	(D) McFarland standard

113.	Method used to detect DNA:	
	(A) Southern blot	(B) Northern blot
	(C) Eastern blot	(D) Western blot
114.	MALDI-TOF technology is used for:	
	(A) Blood culture	(B) Bacterial identification
	(C) Antimicrobial susceptibility	(D) All of the above
115.	Which of the following is Selective medium?	
	(A) Chocolate Agar	(B) Blood Agar
	(C) Nutrient Agar	(D) Blood Tellurite Agar
116.	Which of the following is true for Mycobacte	erium tuberculosis ?
	(A) Acid fastness	(B) Spore formation
	(C) Capsulated	(D) Gram negative
117.	Who introduced methods of obtaining bacter	ia in pure culture using solid media?
	(A) Robert Koch	(B) Joseph Lister
	(C) Louis Pasteur	(D) Edward Jenner
118.	Which bacterial spores are used as Biologica	l sterilization control during Autoclaving?
	(A) Clostridium perfringens	(B) Bacillus stearothermophilus
	(C) Bacillus cereus	(D) Bacillus subtilis
119.	All of the following are Non sense codons <u>Exc</u>	<u>cept</u>
	(A) UAG	(B) UGA
	(C) UAA	(D) AUG
120.	The pre core mutants in Hepatitis B are char	racterized by notable absence of:
	(A) HBV DNA	(B) HBeAg
	(C) HBcAg	(D) Anti HBeAg
121.	Paul Bunnel test is based on sharing of antig	ens between
	(A) Sheep erythrocytes & Epstein barr virus	(B) Mycoplasma & Human Erythrocytes
	(C) Rickettsial antigen & Proteus antigen	
122.	Presence of which immunoglobulin class in servinfection ?	um is a useful indicator for Diagnosis of Congenital
	(A) Ig G	(B) Ig M
	(C) Ig A	(D) Ig D
123.	VDRL test is the example of	
	(A) Agglutination Reaction	(B) Immunofluorescence
	(C) Slide Flocculation Test	(D) None of the above
124.	Which of the following virus can cause cervie	cal cancer?
	(A) Human Papilloma virus	(B) Herpes simplex Virus
	(C) Epstein Barr virus	(D) Norwalk virus
125.	Which structural gene are present in genome	of HIV – 1 and not in HIV – 2
	(A) gag gene	(B) env gene
	(C) pol gene	(D) vpu

126.	. Which of the following viral marker(s) is / are positive in simple carrier of Hepatitis B ?	
	(A) HBsAg	(B) HBeAg
	(C) Both (A) and (B)	(D) None of the above
127.	7. In malaria, the form of plasmodia that is transmitted from mosquito to human is	
	(A) Sporozoite	(B) Gametocyte
	(C) Merozoite	(D) Hypnozoite
128.	Chemical nature of Exotoxin is	
	(A) Lipopolysaccharides	(B) Proteins
	(C) Carbohydrate	(D) None of the above
129.	29. According to national immunisation schedule which of the following is recommend child of 5-year of age.	
	(A) Pentavalent vaccine and vitamin A	(B) DT booster
	(C) DT, OPV and vitamin A	(D) DPT booster and vitamin A
130.	HPV vaccine is:	
	(A) a live attenuated vaccine	(B) a killed vaccine
	(C) a subunit vaccine	(D) a synthetic peptide vaccine
131.	Viruses that can remain latent (usually in ne	eurons) for many years are most likely:
	(A) Togaviruses	(B) Herpesviruses
	(C) Enteroviruses	(D) Retroviruses
132.	Leishmania parasite can be cultured in	
	(A) Blood agar	(B) HeLa cell culture
	(C) RPMI 1640	(D) NNN medium
133.	Lawn culture is employed for:	_
	(A) Viable count	(B) Antibiotic sensitivity
	(C) Motility of bacteria	(D) Primary inoculation of clinical specimen
134.	All are Beta lactam class of drug except:	
	(A) Carbapenem	(B) Penicillin
	(C) Vancomycin	(D) Chloramphenicol
135.	Calabar swelling occurs in infection by :	_
	(A) Mansonella ozzardia	(B) Loa loa
	(C) Onchocerca volvulus	(D) Mansonella perstans
136.	Which of following acts as vector of Chaga's	s disease:
	(A) Tsetse fly	(B) Deer fly
	C Reduviid bug	(D) Sand fly
137.	Paragonimus westermani affects:	_
	(A) Intestine	(B) Lung
	(C) Liver	(D) Blood vessels
138.	The zoological name of beef tapeworm is:	
	(A) Taenia solium	(B) Taenia saginata
	(C) Hymenolepsis nana	(D) Echinococcus granulosus

139.	Hookworm leads to deficiency of:	
	(A) Vitamin A	(B) Iron
	(C) Vitamin B12	(D) Folic acid
140.	In humans, Isospora belli causes:	
	(A) Meningitis	(B) Non bloody watery Diarrhea
	(C) Pneumonia	(D) None of the above
141.	Which parasite causing autoinfection?	
	(A) Plasmodium vivax	(B) Leishmania donovani
	(C) Entamoeba histolytica	(D) Enterobius vermicularis
142.	Which of the following is true for Selenite F	Broth ?
	(A) Enrichment media	(B) Differential media
	(C) Enriched media	(D) Transport media
143.	Which of the following viruses has not been	associated with human cancer?
	(A) Varicella-zoster virus	(B) Hepatitis C virus
	(C) Hepatitis B virus	(D) Human Papilloma Virus
144.	Virulence of Meningococcus is due to :	
	(A) Capsule	(B) Enterotoxin
	(C) Neurotoxin	(D) Flagella
145.	All are non pathogenic Entamoeba except:	_
	(A) Entamoeba coli	(B) Entamoeba histolytica
	(C) Entamoeba hartmanni	(D) Entamoeba gingivalis
146.	An immunoglobulin is a	
	(A) Carbohydrate	(B) Fatty acid
	(C) Glycoprotein	(D) Protein
147.	Which of the following acts as vector for Tr	ypanosoma brucei?
	(A) Reduviid bug	(B) Tsetse fly
	(C) Dear fly	(D) Black fly
148.	The classic complement pathway is initiated	by interaction of C1 with
	(A) Antigen	(B) Antigen-Antibody complexes
	(C) Factor B	(D) Bacterial lipopolysaccharides
149.	Which Hepatitis virus is associated with hig	h risk in pregnancy?
	(A) Hepatitis A	(B) Hepatitis B
	(C) Hepatitis C	(D) Hepatitis E
150.	Which is known as Australia antigen?	
	(A) HBsAg	(B) HBeAg
	(C) HBcAg	(D) HBV DNA
151.	Cholangiocarcinoma is associated with whic	h of the following?
	(A) Clonorchis sinensis	(B) Fasciola hepatica
	(C) Fasciola gigantic	(D) Schistosoma haematobium

152.	Which of the following uses an oxygen sensitive fluorescent compound to detect presence of microorganisms?		
	(A) BACTEC	(B) RT PCR	
	(C) ESP culture system	(D) Conventional PCR	
153.	All of the following are tests for Disinfectants except:		
	(A) Ridel walker Test	(B) Chick Martin test	
	(C) Schick test	(D) Kelsey and Maurer test	
154.	During the window period of patient with AIDS, Best diagnostic test is:		
	(A) ELISA	(B) Western Blot	
	(C) Rapid test	(D) Viral RNA detection	
155.	Isotypes refer to variations in the:		
	(A) Heavy chain constant region	(B) Heavy chain variable region	
	(C) Light chain constant region	(D) Light chain variable region	
156.	Sabin-Feldman dye test is used for the diagnosis of:		
	(A) Toxoplasmosis	(B) Histoplasmosis	
	(C) Leishmaniasis	(D) Chaga's disease	
157.	Which category of hypersensitivity BEST describes hemolytic disease of the newborn caused by Rh incompatibility?		
	(A) Type I	(B) Type II	
	(C) Type III	(D) Type IV	
158.	Diarrhea in AIDS patient may be caused by:		
	(A) Cryptosporidium parvum	(B) Cyclospora	
	(C) Cystoisospora	(D) All of the above	
159.	Bacterial fimbriae present on the outer cell surface are used for:		
	(A) Protein synthesis		
	(B) Motility		
	(C) Cell wall synthesis		
	(D) Adherence and exchange of genetic information.		
160.	Which of the following viral agents can cause diarrhoea?		
	(A) Norovirus agent	(B) Rotaviruses	
	(C) Adenovirus	(D) All of the above	
161.	Hand rub should not be used in which condition?		
	(A) Before touching the patient	(B) After touching the patient	
	(C) After touching patient's surrounding	(D) Hands are visibly soiled	
162.	In which of the following parasites domestic cats is the definitive host?		
	(A) Plasmodium falciparum	(B) Leishmania donovani	
	(C) Toxoplasma gondii	(D) Trichomonas vaginalis	
163.	The commonly used screening test for HIV is:		
	(A) Western Blot Assay	(B) PCR	
	(C) ELISA test	(D) Branched DNA Assay	

164.	Generation time of Mycobacterium tuberculosis is about		
	(A) 20 seconds	(B) 20 minutes	
	(C) 20 hours	(D) 20 days	
165.	Triple sugar iron agar (TSI) medium contain all the following carbohydrates <u>EXCEPT</u>		
	(A) Glucose	(B) Lactose	
	(C) Sucrose	(D) Mannitol	
166.	The larva form of Hymenolepsis nana is called		
	(A) Hydatid cyst	(B) Coenurus	
	(C) Cysticercus	(D) Cysticercoid	
167.	All the following are killed Vaccine <u>EXCEPT</u>		
	(A) Salk Vaccine	(B) Hepatitis A Vaccine	
	(C) Typhoid Vaccine	(D) BCG Vaccine	
168.	Steam Sterilization at 100 ⁰ C for 20 minutes on the three successive days is known as		
	(A) Tyndallisation	(B) Inspissation	
	(C) Pasteurisation	(D) Incineration	
169.	Contamination of contact lenses could lead to eye infection with :		
	(A) Acanthamoeba	(B) Entamoeba coli	
	(C) Onchocerca volvulus	(D) Toxocara canis	
170.	Which organism is considered an index of	of fecal pollution of drinking water supplies?	
	(A) Rota Virus	(B) E. coli	
	(C) Salmonella spp	(D) Hepatitis E virus	
171.	Artifical passive immunity may be induced by:		
	(A) Immunoglobulin injection	(B) Vaccination	
	(C) Maternal antibody	(D) All of the above	
172. Which of the following substances will not stimulate an immune response to a carrier molecule?		t stimulate an immune response unless they are bound	
	(A) Antigen	(B) Virus	
	(C) Hapten	(D) Antibody	
173.	Post exposure Prophylaxis is given for :		
	(A) Measles	(B) Polio	
	(C) Rabies	(D) Tuberculosis	
174.	Pernicious Malaria can present as		
	(A) Blackwater fever	(B) Algid Malaria	
	(C) Septicaemic malaria	(D) All of the above	
175.	Lose of ability to induce full blown disease but retaining immunogenicity known as:		
	(A) Attenuation	(B) Endotoxin	
	(C) Cytopathic	(D) Chronic	
176.	Amastigote forms of Leishmania are seen in		
	(A) Sand fly	(B) Vertebrate Host	
	(C) Culture media	(D) All of the above	

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177.	Consumption of uncooked pork is associated	ed with which of the following helminthic infection	
	(A) Tinea saginata	(B) Tinea solium	
	(C) Trichuris trichura	(D) Hydatid cyst	
178.	Intermediate host in Dracunculus medinensis is:		
	(A) Sand fly	(B) Reduviid bug	
	(C) Cyclops	(D) Anopheles	
179.	All of the following belong to the family of Herpesviridae except:		
	(A) Herpes simplex virus	(B) Varicella zoster virus	
	(C) Cytomegalovirus	(D) Human papilloma virus	
180.	The most commonly used antibiotic substance of the last century i.e penicillin was discovered by:		
	(A) Paul Ehrlich	(B) Alexander Fleming	
	(C) Robert Koch	(D) Ernst Ruska	
181.	World Health Organisation names the new Coronavirus as:		
	(A) Covid-19	(B) Co-vi-23	
	(C) CIV-6	(D) CiV-8	
182.	Which of the following is causative agent of Donovanosis:		
	(A) H. ducreyi	(B) Leishmania donovani	
	(C) K. granulomatis	(D) T. pallidium	
183.	Which of the following is a CCR-5 receptor inhibitor?		
	(A) Emtricitabine	(B) Retonavir	
	(C) Maraviroc	(D) Fosamprenavir	
184.	The most common subtype of HIV found worldwide:		
	(A) HIV-1 subtype A	(B) HIV-1 subtype B	
	(C) HIV-1 subtype C	(D) HIV-1 subtype D	
185.	Japanese encephalitis is transmitted by:		
	(A) Culex mosquito	(B) Anopheles mosquito	
	(C) Hard Tick	(D) Soft Tick	
186.	In dengue infection earliest detectable number of petechial spots per square inch in cubital fossa should be		
	(A) >5	(B) >10	
	(C) >15	(D) >20	
187.	CYD-TDV is a vaccine given for:		
	(A) Yellow fever	(B) Chikungunya	
	(C) Dengue Hemorrhagic fever	(D) JE	
188.	Certificate for Yellow Fever vaccination is valid for :		
	(A) 1 Year	(B) 5 Year	
	(C) 10 Year	(D) lifelong	

189.	All of the following belong to flaviviridae family except ?			
	(A) Yellow fever	(B) Chikungunya		
	(C) Dengue Hemorrhagic fever	(D) JE		
190.	Currently the first choice for treatment of Hepatitis B infection is:			
	(A) Tenofovir	(B) Lamivudine		
	(C) Interferon alfa	(D) Ribavirin		
191.	All are true about SARS except:			
	(A) It is DNA virus	(B) Spread by droplet		
	(C) Diagnosed by RT - PCR	(D) Type of Corona virus		
192.	Recent explosive outbreak of Ebola occurred in :			
	(A) 2014	(B) 2010		
	(C) 2019	(D) 2008		
193. Which of the following belong to Filovirida		ae family:		
	(A) Rotavirus	(B) Norwalk virus		
	(C) Marburg virus	(D) Adenovirus		
194.	Rabies is identified by:			
	(A) Guarneri bodies	(B) Negri bodies		
	(C) Cowdry A bodies	(D) Paschen body		
195.	Types of ELISA used for dengue:			
	(A) Direct	(B) MAC		
	(C) Competitive	(D) ELISPOT		
196. The trivalent vaccine for influenza includes all, exce		s all, except:		
	(A) A/H1N1	(B) A/H5N1		
	(C) A/H3N2	(D) Influenza B strain		
197. Which toxin is not coded by bacteriophage?		2?		
	(A) Diptheria toxin	(B) Cholera toxin		
	(C) Tetanospasmin	(D) Verocyto toxin		
198.	ZIKA virus belongs to which family?			
	(A) Flaviviridae	(B) Togaviridae		
	(C) Bunyaviridae	(D) Reoviridae		
199.	Chandipura virus is transmited by?			
	(A) Culex	(B) Tick		
	C Sand fly	(D) Aedes		
200.	MRSA is mediated due to			
	(A) Plasmid	(B) Transposons		
	(C) Chromosome	(D) None of the above		