

AQG

PROVISIONAL ANSWER KEY [CBRT]

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| Name of The Post | Assistant Professor, Microbiology, General State Service,(Special Recruitment) Class-1 |
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Instructions / સૂચના

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 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-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 ઉત્તરવહીની 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. The interval between the entry of the parasite into the vector and the time it takes to become capable of transmitting the infection is called the
 (A) Intrinsic incubation period (B) Extrinsic incubation period
 (C) Both (A) and (B) (D) None of the above
002. The following are free-living amebae except
 (A) *Naegleria fowleri* (B) *Balamuthia mandrillaris*
 (C) *Iodamoeba butschlii* (D) *Acanthamoeba* species
003. Characteristic/s of the Anchovy sauce pus at the center of the amoebic liver abscess is/are
 (A) Free of ameba (B) Liquefied necrotic liver tissue
 (C) Bacteriologically sterile (D) All of the above
004. Strawberry mucosa is caused by
 (A) *T. vaginalis* (B) *T. tenax*
 (C) *T. hominis* (D) All of the above
005. Parasite causing myocarditis are all except
 (A) *Trichinella spiralis* (B) *Toxoplasma gondii*
 (C) *Trypanosoma cruzi* (D) *Enteromonas hominis*
006. Chagas disease is caused by
 (A) *T. brucei* (B) *T. cruzi*
 (C) Both A and B (D) None of the above
007. Sandfly is the vector for _____ disease
 (A) Amebiasis (B) Trichomoniasis
 (C) Kala-Azar (D) Chagas
008. _____ identified the developing stages of malaria parasites in mosquitoes.
 (A) Alphonse Laveran (B) Golgi
 (C) Ronald Ross (D) None of the above
009. Blood transfusion malaria occurs due to
 (A) Sporozoite (B) Trophozoite
 (C) Merozoite (D) Hypnozoite
010. Parasites that can be transmitted from mother to fetus is/are
 (A) *Trypanosoma cruzi* (B) *Plasmodium* species
 (C) *Toxoplasma gondii* (D) All of the above
011. Modified Ziehl-Neelsen staining is used for the diagnosis of
 (A) *Cryptosporidium parvum* (B) *Isospora belli*
 (C) *Blastocystis hominis* (D) *Cyclospora cayatanensis*
012. Body parts of a Cestode include/s
 (A) Strobila (B) Scolex
 (C) Neck (D) All the above
013. Pork tapeworm is
 (A) *Multiceps multiceps* (B) *Taenia saginata*
 (C) *Taenia diminuta* (D) *Taenia solium*

027. Man is the intermediate host for
 (A) *Strongyloides stercoralis* (B) *Enterobius vermicularis*
 (C) *Echinococcus granulosus* (D) *Clonorchis sinensis*
028. Crescent shaped gametocytes are characteristic of
 (A) *Plasmodium vivax* (B) *Plasmodium falciparum*
 (C) *Plasmodium ovale* (D) *Plasmodium malariae*
029. The infected erythrocytes are enlarged in
 (A) *P. vivax* (B) *P. falciparum*
 (C) *P. malariae* (D) None of the above
030. Maltose crosses are pathognomonic of
 (A) *Babesia* (B) *Toxoplasma*
 (C) *Plasmodium* (D) All of the above
031. Recrudescence occurs in
 (A) *P. vivax* and *P. ovale* (B) *P. falciparum* and *P. malariae*
 (C) *P. falciparum* and *P. ovale* (D) *P. vivax* and *P. malariae*
032. Which of the following is not a trematode?
 (A) *Opisthorchis* species (B) *Clonorchis sinensis*
 (C) *Hymenolepis nana* (D) *Watsonius watsoni*
033. Ova with a lateral spine is observed in
 (A) *S. mansoni* (B) *S. hematobium*
 (C) *S. japonicum* (D) *S. intercalatum*
034. Which of the following statements is true about Formal-ether sedimentation method?
 (A) Four layers are observed (B) Saline and Formal ether are added
 (C) Most widely used method (D) All the above
035. _____ is a cause of urinary tract infections in young women
 (A) *S. saprophyticus* (B) *S. epidermidis*
 (C) *S. hemolyticus* (D) *S. lugdonensis*
036. Robert Koch discovered
 (A) *Tuberculosis bacillus* (B) *Anthrax bacillus*
 (C) *Tetanus bacillus* (D) *Leprosy bacillus*
037. Pike's medium is used for
 (A) *S. mutans* (B) *S. agalactiae*
 (C) *S. pyogenes* (D) *sanguis*
038. The resolving power of electron microscope is
 (A) 0.2 nm (B) 0.3 nm
 (C) 0.1 nm (D) 0.4 nm
039. Quellung reaction is done to detect
 (A) Flagella (B) Capsule
 (C) Fimbriae (D) All of the above

040. Peptidoglycans are present on the cell wall of
 (A) Gram Negative bacteria (B) Gram Positive bacteria
 (C) Both (A) and (B) (D) None of the above
041. Vaccine is not available for _____ Meningococcal serogroup
 (A) X (B) B
 (C) Y (D) A
042. Holders method is heating at
 (A) 65°C for 30 minutes (B) 63°C for 30 minutes
 (C) 65°C for 20 minutes (D) 63°C for 20 minutes
043. Diphtheria toxin acts by inhibiting
 (A) Cell wall synthesis (B) Nucleus synthesis
 (C) Protein synthesis (D) All of the above
044. An example of differential media is
 (A) Thayer-Martin medium (B) Potassium tellurite medium
 (C) Chocolate agar (D) MacConkey agar
045. M'Fadyean reaction is employed for the presumptive diagnosis of
 (A) Anthrax (B) Diphteria
 (C) Cholera (D) Gonorrhoea
046. PRAS is
 (A) Pro-Reduced Anaerobic system (B) Pro-Reduced Aerobic system
 (C) Pre-Reduced Anaerobic system (D) Pre-Reduced Aerobic system
047. Rapidly spreading, edematous myonecrosis is
 (A) Tetanus (B) Gas gangrene
 (C) Malignant pustule (D) Necrotising fasciitis
048. Triple Sugar Iron medium is a/an
 (A) Simple medium (B) Enriched medium
 (C) Composite medium (D) All of the above
049. Clue cells are
 (A) Surface of endothelial cells covered by adherent bacilli
 (B) Surface of epithelial cells covered by adherent bacilli
 (C) Surface of columnar cells covered by adherent bacilli
 (D) Surface of pus cells covered by adherent bacilli
050. Transfer of genetic information through the agency of free DNA is
 (A) Transduction (B) Conjugation
 (C) Transformation (D) None of the above
051. Sereny's test for detection of EIEC is done in
 (A) Rats (B) Pigs
 (C) Guinea pigs (D) Rabbits
052. Insertion sequences are _____ in size
 (A) 1-2 kb (B) 2-3 kb
 (C) 3-4 kb (D) 4-5 kb

053. Carrier state in Salmonella is due to
 (A) H antigen (B) O antigen
 (C) Vi antigen (D) All of the above
054. Bipolar stained Plague bacilli can be demonstrated from buboes by
 (A) Acid-fast stain (B) Wayson stain
 (C) H and E stain (D) All of the above
055. Housefly are efficient mechanical vectors for all diseases except
 (A) Anthrax (B) Trachoma
 (C) Cholera (D) Lymes disease
056. Intermediate host for Gnathostoma spinigerum is
 (A) Mites (B) Ticks
 (C) Cyclops (D) Louse
057. Parasites found in blood include/s
 (A) W. bancrofti (B) Trypanosoma species
 (C) Both (A) and (B) (D) None of the above
058. Which of the following parasite is transmitted by blood transfusion?
 (A) Naegleria fowleri (B) Trypanosoma cruzi
 (C) Balatidium coli (D) Clonarchis sinensis
059. Which of the following statement regarding Enterococcus is not true?
 (A) E. faecalis is the main pathogen (B) Normal commensal of intestinal tract
 (C) Non-motile and capsulated (D) Occurs in pairs or short chains
060. Cryptococcus is a _____ fungus
 (A) Yeast (B) Yeast like
 (C) Dimorphic (D) None of the above
061. Zygomycosis is caused by
 (A) Rhizomucor (B) Rhizopus
 (C) Mucor (D) All of the above
062. Klebsiella species produces _____ colonies on MacConkey agar
 (A) Mucoïd Lactose fermenting (B) Mucoïd non-Lactose fermenting
 (C) Lactose fermenting (D) Non-Lactose fermenting
063. TCBS is
 (A) Thiosulphate Citrate Bile salt Sucrose agar
 (B) Thiosulphite Citrate Bile salt Sucrose agar
 (C) Thiosulphate Citrate Bile salt Sodium agar
 (D) Thiosulphite Citrate Bile salt Sodium agar
064. Bacteraemia occurs in
 (A) Typhoid fever (B) Brucellosis
 (C) Leptospirosis (D) All of the above
065. Hanging drop preparation demonstrates _____ of bacteria
 (A) Flagella (B) Capsule
 (C) Spore (D) None of the above

066. *Shigella* are
 (A) Aerobes (B) Facultative anaerobes
 (C) Both (A) and (B) (D) None of the above
067. The trophozoites of *Giardia lamblia* are
 (A) Oval shape (B) Spherical shape
 (C) Pear shape (D) None of the above
068. Megaloblastic anemia is caused by
 (A) *Ancylostoma duodenale* (B) *Nector americanus*
 (C) *Trichuris trichiura* (D) *Diphyllobothrium latum*
069. Reynolds-Braude phenomenon is used to differentiate species of
 (A) *Candida* (B) *Cryptococcus*
 (C) Both (A) and (B) (D) None of the above
070. All are dimorphic fungi except
 (A) *Sporothrix schenckii* (B) *Paracoccidioides brasiliensis*
 (C) *Blastomyces dermatitidis* (D) *Aspergillus fumigatus*
071. *Tinea versicolor* is caused by
 (A) *Pitryosporum orbiculare* (B) *Hortaea werneckii*
 (C) *Histoplasma capsulatum* (D) *Trichophyton verrucosum*
072. Which of the following statement is not true regarding *Trichophyton mentagrophytes*?
 (A) Grape like clusters of microconidia (B) Cigar shaped macroconidia
 (C) Hair perforation test is negative (D) Urease test is positive
073. *Eumycetoma* is caused by all except
 (A) *Nocardia brasiliensis* (B) *Madurella mycetomatis*
 (C) *Pseudoallescherchia boydii* (D) *Exophiala jeanselmei*
074. South American Blastomycosis is caused by
 (A) *Coccidioides immitis* (B) *Blastomyces dermatitidis*
 (C) *Histoplasma capsulatum* (D) *Paracoccidioides brasiliensis*
075. The fungus that exhibits septate hyphae with dichotomous branching on KOH mount is
 (A) *Aspergillus* (B) *Cryptococcus*
 (C) *Penicillium* (D) *Mucor*
076. The common cause of Pneumonia in immunocompromised patients is
 (A) *C. tropicalis* (B) *P. jiroveci*
 (C) *A. niger* (D) *P. marneffi*
077. The normal flora of the conjunctiva is/are
 (A) *Moraxella* species (B) *Corynebacterium xerosis*
 (C) *Staphylococcus epidermidis* (D) All of the above
078. Which of the following produces Atypical Pneumonia?
 (A) *Streptococcus pneumoniae* (B) *Chlamydia pneumoniae*
 (C) *Klebsiella pneumoniae* (D) *Hemophilus influenzae*

079. The commonest cause of urinary tract infections is
 (A) *Proteus mirabilis* (B) *Enterococcus fecalis*
 (C) *Escherichia coli* (D) *Staphylococcus aureus*
080. _____ is the commonest cause of diarrhea in infants and young children
 (A) Norwalk virus (B) Rotavirus
 (C) Adenovirus (D) Calcivirus
081. The following bacteria are etiological agents of neonatal meningitis except
 (A) *Staphylococcus aureus* (B) Group B Streptococci
 (C) *Neisseria meningitis* (D) *Escherichia coli*
082. The commonest agent of endocarditis associated with intravenous drug abuse is
 (A) *Candida albicans* (B) *Coxiella burnetii*
 (C) *Staphylococcus aureus* (D) *Chylamydia psittaci*
083. Fever of unknown origin is any febrile illness lasting
 (A) 3 weeks or longer (B) 4 weeks or longer
 (C) 2 weeks or longer (D) 1 week or longer
084. All are organisms responsible for Non-Gonococcal Urethritis except
 (A) *Mycoplasma genitalium* (B) *Ureaplasma urealyticum*
 (C) *Chlamydia trachomatis* (D) *Neisseria gonorrhoeae*
085. Hospital associated infections in persons with burns is due to all except
 (A) *Staphylococcus aureus* (B) *Pseudomonas aeruginosa*
 (C) *Acinetobacter species* (D) *Escherichia coli*
086. Which of the following statement/s is/are true regarding Epsilon meter test?
 (A) Antimicrobial sensitivity test (B) Detects MIC of the drug
 (C) Latest method (D) All of the above
087. NASBA is
 (A) Nucleic acid Sequence-Based Amplification
 (B) Requires thermal cycler for amplification
 (C) Needs DNA polymerase
 (D) Detects but doesn't quantify HIV-RNA
088. DNA probe technology is used to
 (A) Detect microbes in specimens (B) Identification of culture isolates
 (C) Identification of resistance markers (D) All of the above
089. The different types of PCR include/s
 (A) Reverse transcriptase PCR (B) Nested PCR
 (C) Multiplex PCR (D) All of the above
090. Eijkman test is done to detect
 (A) Faecal Streptococci (B) Faecal *Escherichia coli*
 (C) *Vibrio cholera* (D) *Salmonella Typhi*
091. Bacteria which require much higher level of carbon dioxide for growth is
 (A) Psychrophile (B) Mesophile
 (C) Thermophile (D) Capnophile

092. Active ingredient of Dettol is
 (A) Chloroxylenol (B) Cresol
 (C) Chlorhexidine (D) Hexachlorophane
093. Sterilisation of delicate instruments having lenses is done by
 (A) Formaldehyde (B) Glutaraldehyde
 (C) Alcohol (D) None of the above
094. Whey agglutination test detects
 (A) Tuberculosis (B) Brucellosis
 (C) Salmonellosis (D) Leptospirosis
095. The width of the slit in a slit sampler used for air sampling is
 (A) 0.25 mm (B) 0.55 mm
 (C) 0.45 mm (D) 0.35 mm
096. The acceptable bacterial count in air of neurosurgery operation theatre is
 (A) 10 per cubic feet (B) 5 per cubic feet
 (C) 1 per cubic feet (D) None of the above
097. The following are moments of hand hygiene
 (A) After touching a patient (B) Before any aseptic procedure
 (C) After touching patients surroundings (D) All of the above
098. Metallic body implants are to be discarded into the following BioMedical Waste bin
 (A) Red (B) Yellow
 (C) White (D) Blue
099. Expired medicines are to be disposed into the following BioMedical Waste bin
 (A) Red (B) Yellow
 (C) Blue (D) White
100. Red coloured BioMedical Waste bin can contain the following except
 (A) Gloves (B) Catheters
 (C) Blood bags (D) Urine bags
101. Total number of Categories in BioMedical Waste are
 (A) 8 (B) 6
 (C) 4 (D) 2
102. Zika virus disease is caused by bite of _____ mosquito
 (A) Aedes (B) Culex
 (C) Anopheles (D) None of the above
103. The smallest virus is
 (A) Pox virus (B) Parvo virus
 (C) Adeno virus (D) Calci virus
104. Paul-Bunnell test detects
 (A) Cytomegalovirus (B) Epstein-Barr virus
 (C) Herpes simplex virus (D) Varizella-Zoster virus

105. Roseola infantum is caused by
 (A) Human Herpesvirus 5 (B) Human Herpesvirus 6
 (C) Human Herpesvirus 7 (D) Human Herpesvirus 8
106. All the following are live vaccines except
 (A) BCG vaccine (B) Measles vaccine
 (C) Rubella vaccine (D) Hepatitis B vaccine
107. Which statement/s is/are true regarding Varicella vaccine?
 (A) Live attenuated vaccine (B) Administered either as single/two doses
 (C) Contraindicated during pregnancy (D) All of the above
108. MGIT used in tuberculosis diagnosis is actually
 (A) Automated culture (B) Biochemical test
 (C) Microscopic method (D) None of the above
109. M.leprae is cultivated by inoculating the specimens into
 (A) Foot pad of mice (B) Nine banded armadillo
 (C) Both (A) and (B) (D) None of the above
110. The serotypes of Vibrio cholera is/are
 (A) Inaba (B) Hikojima
 (C) Ogawa (D) All of the above
111. All the following are opportunistic infections in HIV except
 (A) CMV retinitis (B) Chronic brucellosis
 (C) Oesophageal candidiasis (D) Toxoplasma encephalitis
112. Hepatitis A virus belongs to _____ family
 (A) Picornaviridae (B) Flaviviridae
 (C) Calciviridae (D) Hepadnaviridae
113. Superinfection is
 (A) HBV and HDV infection occurring simultaneously
 (B) HDV infection in a carrier of HBV
 (C) Both (A) and (B)
 (D) None of the above
114. All are disorders of Phagocytosis except
 (A) Ataxia telangiectasia (B) Job's syndrome
 (C) Leukocyte adhesion deficiency (D) Chronic granulomatous disease
115. Hyperacute rejection of grafts occurs due to the following immune mechanism
 (A) Chronic delayed type hypersensitivity mediated
 (B) Cytotoxic T cell mediated
 (C) Preformed antibodies mediated
 (D) All of the above
116. All are true about reticulate body of Chlamydiae except
 (A) Infectious form (B) Intracellular form
 (C) Metabolically active (D) Fragile cell wall

117. All are true about Polioviruses except
 (A) Has three antigenic types (B) Incubation period is usually 7-14 days
 (C) Feco-oral transmission (D) None of the above
118. Human immunoglobulins are available for following viral infections except
 (A) Varicella-Zoster (B) Hepatitis B
 (C) Poliomyelitis (D) Rabies
119. BCYE agar is used to culture
 (A) Campylobacter (B) Legionella
 (C) Helicobacter (D) All of the above
120. Which of the following virus is space vehicle shaped?
 (A) Rotavirus (B) Poxvirus
 (C) Rabiesvirus (D) Adenovirus
121. The miracle drug for the treatment of XDR-tuberculosis since 2015 is
 (A) Cycloserine (B) Kanamycin
 (C) Bedaquiline (D) Ethionamide
122. Presence of _____ indicates active Candida infection
 (A) Chlamydo spores (B) Germ tube
 (C) Pseudohyphae (D) All of the above
123. VDRL is named after Veneral Disease Research Laboratory located at
 (A) Newyork (B) Kolkata
 (C) Atlanta (D) Pune
124. Polymerase chain reaction was discovered by
 (A) Karry Mullis in 1995 (B) Emmy Klieneberger in 1993
 (C) Karry Mullis in 1993 (D) Emmy Klieneberger in 1995
125. In nitrate reduction test, the following reagents are added
 (A) 40% Potassium hydroxide
 (B) Sulfanilic acid and alpha-naphthylamine
 (C) Phenyl pruvic acid and 10% ferric chloride
 (D) Para-dimethyl amino benzaldehyde
126. Darling's disease has _____ varieties
 (A) 3 (B) 4
 (C) 5 (D) 2
127. Arenaviruses contain
 (A) 3 segments of ssRNA (B) 2 segments of ssRNA
 (C) 3 segments of dsRNA (D) 2 segments of dsRNA
128. All the following media are used for culturing leptospira except
 (A) EMJH media (B) Korthof's media
 (C) CHAB media (D) Fletcher's media
129. All statements are true regarding Sprillium minus except
 (A) Causes Sodoku (B) Non-cultivable
 (C) Non-motile (D) Spirally coiled bacilli

130. Ceiling temperature for Vaccinia virus is
 (A) 41°C (B) 38°C
 (C) 39°C (D) 40°C
131. The following antibiotics are preferred choices for anaerobic infections except
 (A) Metronidazole (B) Chloramphenicol
 (C) Carbapenems (D) Penicillin
132. Buruli ulcer is caused by
 (A) *M. xenopi* (B) *M. scrofulaceum*
 (C) *M. malmoense* (D) *M. ulcerans*
133. Rocky mountain spotted fever is due to
 (A) *R. rickettsii* (B) *R. typhi*
 (C) *R. prowazekii* (D) *R. conorii*
134. IgE
 (A) Protects body fluids (B) Protects body surfaces
 (C) Protects blood stream (D) Mediates reaginic hypersensitivity
135. In Weil-Felix test, the following antibodies are increased in scrub typhus
 (A) OX 19 (B) OX 2
 (C) OX K (D) All of the above
136. All the statements are true regarding Mumps virus except
 (A) Secondary attack rate is high
 (B) Humans are the only reservoir
 (C) Affects commonly 5-9 years of age
 (D) Aseptic meningitis is the common manifestation
137. Which of the following statements is not true regarding Koplik's spots?
 (A) Appear first on buccal mucosa near second lower molar
 (B) Pathognomonic of measles
 (C) Red spots 5mm size
 (D) Appears after two days following fever
138. The amplifier host for Japanese B Encephalitis is
 (A) Ardeid birds (B) Pigs
 (C) Egrets (D) Herons
139. Negri bodies of Rabies are
 (A) Intracytoplasmic eosinophilic inclusions with basophilic inner granules
 (B) Intracytoplasmic basophilic inclusions with basophilic inner granules
 (C) Intracytoplasmic acidophilic inclusions with basophilic inner granules
 (D) None of the above
140. Human fibroblast cell lines are excellent for recovery of
 (A) Myxovirus (B) Cytomegalovirus
 (C) Adenovirus (D) Enterovirus

141. Agents causing surgical site wound infections is/are
 (A) *Candida albicans* (B) Coagulase negative Staphylococci
 (C) Enterococcus (D) All of the above
142. The following organism/s can cause Laboratory-acquired infection
 (A) *Francisella tularensis* (B) Herpes simiae virus
 (C) Dermatophytes (D) All of the above
143. Role of SPS in blood culture bottle is
 (A) Bacteriostatic (B) Antiviral
 (C) Anticoagulant (D) Antifungal
144. A Gram stain of CSF shows lanceolate shaped Gram positive cocci in pairs. The most probable organism is
 (A) *Streptococcus agalactiae* (B) *Neisseria meningitidis*
 (C) *Streptococcus pneumoniae* (D) *Staphylococcus aureus*
145. Neurotoxins are produced by all except
 (A) *Campylobacter jejuni* (B) *Bacillus cereus*
 (C) *Clostridium botulinum* (D) *Staphylococcus aureus*
146. Significant bacteriuria in urine indicates
 (A) More than 10^4 CFU/ml (B) More than 10^3 CFU/ml
 (C) More than 10^6 CFU/ml (D) More than 10^5 CFU/ml
147. The bacteria present in probiotics is/are
 (A) *Bacillus coagulans* (B) *Bifidobacterium longum*
 (C) *Lactobacillus acidophilus* (D) All of the above
148. All are false about AMR except
 (A) Antibiotic metrics of resistance
 (B) Leads to decreased bacterial mutation
 (C) Paved way for restricted use of antibiotics
 (D) Is rising across the globe
149. Minimum duration for hand rub is
 (A) 20 seconds (B) 40 seconds
 (C) 10 seconds (D) 30 seconds
150. Broad based budding is seen in
 (A) *Coccidioides* (B) *Blastomyces*
 (C) *Histoplasma* (D) *Rhizopus*
151. All are true about *Helicobacter* except
 (A) Seagull appearance (B) Abundant urease production
 (C) Produces CagA (D) Oxidase negative
152. The most probable bacteria transmitted by cat bite in humans is
 (A) *Capnocytophaga* (B) *Chromobacterium*
 (C) *Pasteurella* (D) *Francisella*

153. Bisected pearls appearance is produced by
 (A) *Brucella abortus* (B) *Bordetella pertussis*
 (C) Both (A) and (B) (D) None of the above
154. All are HACEK group of bacteria except
 (A) *Eikenella corrodens* (B) *Acinetobacter baumannii*
 (C) *Cardiobacterium hominis* (D) *Kingella kingae*
155. Koch-Weeks bacillus is
 (A) *H. aegyptius* (B) *H. ducreyi*
 (C) *H. parainfluenzae* (D) *H. hemolyticus*
156. Which of the following statements is not true regarding *Haemophilus influenzae*?
 (A) Pfeiffer's bacillus (B) Requires Factors X and V
 (C) Has 8 serotypes (D) Capsulated
157. On Ashdown's medium, *B.pseudomallei* produces _____ colonies
 (A) Yellow (B) Orange
 (C) Purple (D) Brown
158. *Ecthyma gangrenosum* is caused by
 (A) *Moraxella lacunata* (B) *Stenotrophomonas maltophilia*
 (C) *Pseudomonas aeruginosa* (D) *Burkholderia pseudomallei*
159. Swarming by *Proteus* doesn't occur in the following media except
 (A) Phenyl ethyl agar (B) MacConkey agar
 (C) Chocolate agar (D) CLED agar
160. The following are characters of *Listeria monocytogenes* except
 (A) Cold enrichment (B) Grows in presence of 10% salt
 (C) Tumbling motility (D) Negative CAMP test
161. CBNAAT is
 (A) Chip based nucleic acid amplification test
 (B) Cartridge based nucleic acid amplification test
 (C) Both (A) and (B)
 (D) None of the above
162. Important virulence factor of *Gonococci* is
 (A) Flagella (B) Fimbriae
 (C) Capsule (D) Spore
163. RA factor in Rheumatoid arthritis is a/an
 (A) Antigen (B) Auto-antibody
 (C) Hapten (D) Antibody
164. RAST detects _____ hypersensitivity reaction
 (A) Type I (B) Type II
 (C) Type III (D) Type IV
165. ESBLs can be detected by
 (A) Combination disk tests (B) Molecular methods
 (C) Both (A) and (B) (D) None of the above

166. In Preston and Morrell's modification of Gram stain, the decolorizer used is
 (A) Acetone (B) Aniline
 (C) Iodine-Acetone (D) Aniline-Xylol
167. Gliding motility is seen in
 (A) Clostridium (B) Listeria
 (C) Mycoplasma (D) Campylobacter
168. Glasswares are sterilized by
 (A) Hot air oven (B) Pasteurization
 (C) Water bath (D) Inspissation
169. In PCR, denaturation occurs at
 (A) 55°C (B) 72°C
 (C) 95°C (D) None of the above
170. Red coloured ring in Indole test is observed in
 (A) Klebsiella pneumoniae (B) Escherichia coli
 (C) Proteus mirabilis (D) Pseudomonas aeruginosa
171. A fifth generation Cephalosporin is
 (A) Cefepime (B) Cefpirome
 (C) Ceftaroline (D) Ceftazidime
172. Enhancement of virulence is
 (A) Attenuation (B) Exaltation
 (C) Propagation (D) None of the above
173. CRP is increased in
 (A) Acute bacterial infections (B) Malignancies
 (D) All of the above
174. Ouchterlony procedure is
 (A) Single diffusion in two dimensions (B) Double diffusion in two dimensions
 (C) Single diffusion in one dimension (D) Double diffusion in one dimension
175. Direct ELISA detects
 (A) Antigen (B) Antibody
 (C) Complement (D) All of the above
176. Deficiency of C₁ esterase inhibitor leads to
 (A) Immune complex disease (B) Recurrent pyogenic infections
 (D) Hereditary angioneurotic edema
177. The CD markers on T cells are
 (A) CD 2, 4, 8 (B) CD 3, 4, 8
 (C) CD 19, 21, 24 (D) None of the above
178. MHC Class II molecules are present on
 (A) All nucleated cells (B) Antigen presenting cells
 (C) Both (A) and (B) (D) None of the above

179. Antigen presenting cells is/are
 (A) Dendritic cells (B) B cells
 (C) Macrophages (D) All of the above
180. Which of the following is not a secondary mediator of Type-I hypersensitivity?
 (A) Bradykinin (B) Prostaglandin
 (C) Heparin (D) Leukotrienes
181. Blood transfusion transmitted bacterial infections are all except
 (A) *Treponema pallidum* (B) *Staphylococcus aureus*
 (C) *Borrelia burgdorferi* (D) *Leptospira interrogans*
182. DCA is
 (A) Deoxycholate citrate agar (B) Deoxycholate cysteine agar
 (C) Deoxycholate citrulline agar (D) None of the above
183. Pigs serve as common mixing vessels for influenza virus as it has
 (A) α 2-3 sialic acid receptors (B) α 2-6 sialic acid receptors
 (C) Both (A) and (B) (D) None of the above
184. Which sequence of serotype infection can be dangerous in Dengue?
 (A) Serotype 2 followed by serotype 1 (B) Serotype 1 followed by serotype 2
 (C) Serotype 3 followed by serotype 4 (D) Serotype 4 followed by serotype 3
185. MERS was first reported from
 (A) China (B) Saudi Arabia
 (C) India (D) France
186. All are human oncogenic viruses except
 (A) Epstein-Barr virus (B) Hepatitis C virus
 (C) Human Herpes virus 8 (D) Human Herpes virus 7
187. Ectothrix is caused by all except
 (A) *M. audouinii* (B) *T. tonsurans*
 (C) *M. canis* (D) *T. mentagrophytes*
188. Which fungi are angioinvasive in nature?
 (A) *Aspergillus* (B) *Penicillium*
 (C) *Rhizopus* (D) *Candida*
189. A patient presents with well demarcated annular shaped pruritic scaly skin lesions with central clearing and raised edges. What is the most probable etiological agent ?
 (A) Dermatophytes (B) *Hortae wernickii*
 (C) *Trichosporon beigeli* (D) None of the above
190. The risk of transmission is highest for _____ through needle stick injury
 (A) HBV (B) HCV
 (C) HIV (D) All of the above
191. Which STD presents as painful, soft and marked swelling leading to bubo formation?
 (A) Syphilis (B) LGV
 (C) Chancroid (D) Donovanosis

192. Nipah virus infection occurred recently in _____ year in India
(A) 2017 (B) 2018
(C) 2019 (D) 2020
193. Standard Operating Procedure is/are
(A) Laboratory bench manual (B) Describes step wise process
(C) Helps in maintaining uniformity (D) All of the above
194. Fried egg appearance is typical of
(A) Mycoplasma colonies (B) Ureaplasma colonies
(C) Both (A) and (B) (D) None of the above
195. Trench fever is caused by
(A) B. quintana (B) B. henselae
(C) B. bacilliformis (D) All of the above
196. Alpha feto protein is raised in
(A) Hepatoma (B) Multiple myeloma
(C) Prostrate cancer (D) Choriocarcinoma
197. Non sense codon is/are
(A) UGA (B) UAA
(C) UAG (D) All of the above
198. Branched and filamentous bacteria is
(A) Actinomyces (B) Diphtheroids
(C) Spirochetes (D) Micrococcus
199. Syncytium formation is seen in
(A) Enterovirus (B) HSV
(C) Adenovirus (D) Measles virus
200. Vector of Monkey's disease is
(A) Hard tick (B) Sandfly
(C) Culex (D) Aedes