1 x 60=60



BRAINWARE UNIVERSITY

Term End Examination 2021 - 22 Programme – Bachelor of Science in Critical Care Technology Course Name – Medical Microbiology Course Code - BCCT201 (Semester II)

Time allotted: 1 Hrs.15 Min. Full Marks: 60

[The figure in the margin indicates full marks.]

Group-A

(Multiple Choice Type Question) Choose the correct alternative from the following: (1) What is Bacteriology? a) study of protozoa b) study of helminthes c) study of bacteria d) study of viruses (2) Father of microbiology is a) Louis Pasteur b) Lister c) A.V. Leeuwenhock d) Robert Koch (3) According to Pasteur statements which one of the following is true a) Living organisms discriminate between b) Fermentation is a aerobic process stereoisomers d) Both a and b c) Living organisms doesn't discriminate between stereoisomers (4) B.anthracis was isolated by a) Louis Pasteur b) Robert Koch d) None of these c) Antony van Leewenhok (5) The main feature of prokaryotic organism is a) Absence of locomotion b) Absence of nuclear envelope c) Absence of nuclear material d) Absence of protein synthesis (6) Temperature required for pasteurization is a) Above 150°C b) Below 100°C

d) None of these

c) 110°C

(7) Among these the sterilizing agent is

a) Ethylene oxide	b) Oxygen
c) Nitrogen	d) Carbon tetrachloride
(8) At the temperature 160°C for one hour, comple	te sterilization occurs in
a) Autoclave	b) Hot air oven
c) Laminar flow	d) Incubator
(9) Lysol is a	
a) Sterilent	b) Disinfectant
c) Antiseptic	d) Antifungal agent
(10) Relationship between two indivisuals where both	th are benefitted when they are associated
a) symbiosis	b) parasitism
c) mutualism	d) commensalism
(11) Degree of pathogenecity is	
a) pathogenic	b) oppurtunistic
c) virulence	d) toxins
(12) Study of algae is	
a) Nematology	b) immunology
c) phycology	d) mycology
(13) Tyndallisation was proposed by	
a) John Tyndall	b) Pasteur
c) Robert Koch	d) Jenner
(14) Temperature used for hot air oven is	
a) 100°C for 1 hour	b) 120°C for 1 hour
c) 160°C for 1 hour	d) 60°C for 1 hour
(15) Peptone water medium is an example for	
a) Synthetic medium	b) Semisynthetic medium
c) Differential medium	d) None of these
(16) The bacterial cells are at their metabolic peak d	uring-
a) Lag phase	b) Log
c) Stationary	d) Decline
(17) Endotoxin produced by gramnegative bacteria i	s present in-
a) Peptidoglycan	b) Lippolysacharide
c) Theichoic acid	d) Inner membrane
(18) Which of the following are acid fast structures?	
a) Mycobacteria	b) Bacterial spores
c) Nocardia	d) All of these
(19) What is the function of bacterial capsule?	
a) Production of organism from phagocytosis	b) Helps in adherence of bacteria to surface in its environment
c) Both of them	d) None of these
(20) Identify the obligate anaerobes-	
a) Salmonella	b) Vibrio cholera
c) Cl. tetani	d) Sarcinae

(21) Of the following, this is a capsulated organism-	
a) Bacillus anthracis	b) Escherichia-coli
c) Corynebacterium	d) Brucella
(22) β-haemolytic bacteria is-	
a) Streptococcus pyogenes	b) Str. pneumoniae
c) Str. viridans	d) Str. faecalis
(23) Presence of viable bacteria in the blood stream i	s called-
a) Viraemia	b) Septicaemia
c) Bacteraemia	d) Bactericidal
(24) If more than one stain is used, such staining is c	alled-
a) Simple staining	b) Negative staining
c) Differential staining	d) None of these
(25) The extra cellular infections virus particle is call	led-
a) Capsid	b) Nucleocapsid
c) Virion	d) None of these
(26) Cell-wall is-	
a) Thick in Gram positive than Gram negative	b) Thick in Gram negative than Gram positive
c) Equal in both	d) In Gram negative cell-wall is absent
(27) The action of alcohol during Gramstaining is-	
a) Allows the color	b) It adds color
c) Decolorises the cells	d) None of these
(28) Bacteria multiply by-	
a) Spore formation	b) Simple binary fission
c) Conjugation	d) Gametes
(29) Separation of a single colony is-	
a) Pure-culturing	b) Isolation
c) Separation	d) None of these
(30) The protein moiety of an enzyme is known as-	
a) Holo enzyme	b) Apo enzyme
c) Co enzyme	d) Enzyme
(31) Biological Oxygen Demand (BOD) is a measure	e of-
a) Industrial wastes poured into water bodies	b) Extent to which water is polluted with organic compounds
c) Amount of carbon monoxide inseparably combined with haemoglobin	d) Amount of oxygen needed by green plants during night
(32) The first phase of a growth curve is-	
a) Log phase	b) Lag phase
c) γ phase	d) All of these
(33) The no. of generations per hour in a bacteria is-	
a) Growth rate	b) Generation time
c) Sigmoid curve	d) None of these
(34) The reproduction rate is equal to death rate in w	,

a) Decline phase	b) Stationary phase
c) Lag phase	d) Log phase
(35) Non-cyclic photophosphorylation is also known a	as-
a) Oxygenic photosynthesis	b) Photosynthesis
c) Anoxygenic photosynthesis	d) Photophosphorylation
(36) Optimum growth temperature is greater that 45°C	C is-
a) Mesophiles	b) Thermophiles
c) Psychrophiles	d) None of these
(37) Which one of the following mutagens act only or	replicating DNA?
a) Ethidium bromide	b) Nitrosogeranidine
c) Acridine orange	d) None of above
(38) Plasmids are ideal vectors for gene cloning as-	
a) They can be multiplied by culturing	b) They can be multiplied in the laboratory using enzymes
c) They can replicate freely outside the bacterial cell	d) They are self replicating within the bacterial cell
(39) DNA-replication is by the mechanism of-	
a) Conservative	b) Semiconservative
c) Dispersive	d) None of the above
(40) Genetic information transfer DNA to RNA is call	led –
a) Transcription	b) Transduction
c) Transformation	d) Recombination
(41) Example for DNA viruses:	
a) Adeno virus and Papova virus	b) Bacteriophage T1, T2, T3, T4, T5, T6
c) Herpes virus and cauliflower moisaic	d) All of these
(42) The antibiotic acting on cell wall is-	
a) Bactracin	b) Penicillin
c) Cyclosporine	d) All of these
(43) Which of the following induces dimerisation of the	hymine?
a) X-rays	b) U.V. rays
c) ã-rays	d) None of these
(44) Discontinuous heating is called-	
a) Pasteurization	b) Sterilization
c) Fermentation	d) Tyndalisation
(45) The antiseptic method was first demonstrated by-	
a) Lwanowski	b) Lord Lister
c) Edward Jenner	d) Beijerinck
(46) Interferon is formed by-	
a) Lymphocytes	b) Lymphoblasts
c) Fibroblasts	d) All of these
(47) Culture medium used for bacterial motility testing	g-
a) Solid	b) Liquid

c) Semi-solid	d) All of these
(48) LJ medium is used for-	
a) Bacillus anthracis	b) Pneumococcus
c) Mycobacterium	d) None of these
(49) Among the following which organ is sterile?	
a) blood	b) brain
c) muscle	d) all of these
(50) Symbiotic relationship can be-	
a) mutualistic	b) commensalistic
c) parasitic	d) all of the above
(51) Plaques are:	
 a) clear areas in a lawn of cultured cells caused by virus infection. 	b) stained areas in a cell culture indicating cells infected by a virus.
c) virus colonies on agar.	d) bacterial colonies on agar
(52) Gaspak system is used for-	
a) anaerobic bacterial culture	b) areobic culture
c) both of them	d) none of them
(53) Obligate aerobes are-	
a) lives in presence of oxygen	b) lives in absence of oxygen
c) lives in both the conditions	d) lives in extreme heat conditions
(54) Majority of microbes present in conjuctiva are-	
a) Staphylococcus epidermidis	b) Propionibacterium acnes
c) Both of them	d) None of them
(55) The image obtained in a compound microscope is-	-
a) Real	b) Virtual
c) Real inverted	d) Virtual inverted
(56) Bacterial transformation was discovered by	
a) Ederberg and Tatum	b) Beadle and Tatum
c) Griffith	d) None of these
(57) Light gathering capacity of Microscope is called-	
a) Numerical aperture	b) Angular aperture
c) Both of them	d) None of them
(58) Fluroscent substance used in fluorescent microsco	py are-
a) Quinine sulphate	b) Auramine
c) Both of these	d) None of these
(59) Bacterial locomotion is accomplished by-	
a) fimbriae	b) flagella
c) cytoskeleton	d) None of the above
(60) Of the following, this is a capsulated organism-	
a) Bacillus anthracis	b) Escherichia-coli
c) Corynebacterium	d) Brucella