

BRAINWARE UNIVERSITY

Term End Examination 2020 - 21

Programme – Bachelor of Science in Medical Lab Technology

Course Name – General Bacteriology

Course Code - BMLT301

Semester / Year - Semester III

Time allotted: 75 Minutes

Full Marks: 60

The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A (Multiple Choice Type Question) 1 x 60=60 1. (Answer any Sixty) (i) Bacteria can be visible under a) Dark-field microscope b) Electron microscope c) Fluroscence microscope d) All of these (ii) The earliest solid media by Robert Koch was: a) Cooked cut Potato b) Cooked cut Spinach c) Cooked cut Onion d) Cooked cut cabbage (iii) Example of enrich media a) Blood agar b) Chocolate agar c) Blood agar & Chocolate agar d) TCBS agar (iv) For pneumococci sugar media contain: a) 3% Serum b) 3% plasma d) 3% inositol c) 3% Peptone

(v) Which of the following is a Complex media for fungal growth?

a) Potato Dextrose Agar(PDA) media b) Mac Conkey Agar media

c) Nutrient broth d) Luria-Bertani media

(vi) Which of the following is used as a solidify	ving agent for media?
a) Agar	b) Yeast extract
c) Peptone	d) Beef extract
(vii) In the Gaspak method the chemical will ge	enerate
a) Hydrogen and CO2	b) Carbonic acid
c) Hydrogen Peroxide	d) All of these
(viii) Which of the following is a Complex med	lia for fungal growth?
a) Nutrient broth	b) Luria-Bertani media
c) Potato Dextrose Agar(PDA) media	d) Mac Conkey Agar media
(ix) Which one of the following is true?	
a) Agar has nutrient properties	b) Chocolate medium is selective medium
c) Addition of selective substances in a solid medium is called enrichment media	d) Nutrient broth is basal medium
(x) Gram staining was developed in:	
a) 1882	b) 1883
c) 1884	d) 1885
(xi) The most common stain used for Gram stai	ning is:
a) Crystal Violet and methylene blue	b) Crystal violet and Safarin
c) Crystal Violet and carbol fuschin	d) Safarin and methylene blue
(xii) Lipopolysaccharide is found in cell wall of	f:
a) Gram Positive bacteria	b) Gram negative bacteria
c) Gram Positive bacteria & Gram negative bacteria	d) fungi
(xiii) Gram staining is an example of	

a) Acid fast stain	b) Simple stain
c) Differential stain	d) None of these
(xiv) Among which stain the cell is appearing color	as bright object without staining
a) Gram Stain	b) Acid-fast stain
c) Simple stain	d) Negative stain
(xv) Clostridium staining will be done by	
a) Differential staining	b) Endospore staining
c) Acid fast staining	d) All of these
(xvi) The dye used for Capsule staining is:	
a) India ink	b) Eosin
c) nigrosin	d) Both India ink & nigrosin
(xvii) Catalase test the reagent used is	
a) 3%-6% hydrogen peroxide	b) 1%-2% hydrogen peroxide
c) 4%-5% hydrogen peroxide	d) All of the these
(xviii) Oxidase reactions is due to	
a) Catalase	b) Peroxidase
c) Cytochrome oxidase	d) All of these
(xix) Urease test is positive for bacteria	
a) Psudomonas	b) Staphylococcus
c) Klenseilla	d) All of these
(xx) Indole test is showing positive result for	
a) Klebsiella	b) Staphylococcus
c) E.Coli	d) Salmonella

(xxi) Methyl red test, culture used for	
a) Glucose phosphate culture	b) Peptone culture
c) Beef extract	d) None of these
(xxii) Sugar Fermentation Test, indicator u	used for
a) Andrade's indicator	b) Methyl red indicator
c) Phenol red indicator	d) Both Andrade's indicator and Phenol red indicator
(xxiii) Differential staining of bacteria spo	ore is related to
a) Albert's staining	b) Lugol's staining
c) Moller's staining	d) Indian ink preparation
(xxiv) The size of the virus can be determined	ined by
a) Micrography	b) Ultra-centrifugation at high speed
c) Ultra-filteration	d) All of these
(xxv) D.pneumoniae can be cultivated in	
a) Chocolate agar and blood agar	b) Serum broth
c) Glucose broth	d) All of these
(xxvi) Which of the following are gas production	ducing Salmonella?
a) S.typhi	b) S.enteritidis
c) S.cholerasuis	d) S.typhimurium
(xxvii) Culture media for fungi are	
a) Potato dextrose agar (PDA)	b) Sabouraud's agar
c) Czapekdox agar	d) All of the these
(xxviii) Viral antigens are likely	
a) Proteins	b) Glyco proteins

c) Lipo proteins	d) Both Proteins and Glyco proteins
(xxix) E.coli produce which type of toxins	
a) Exotoxins	b) Endotoxins
c) Leucocidin	d) Both Exotoxins and Endotoxins
(xxx) Neisseria gonorrhoeae causes	
a) Urethritis	b) Conjuctivitis
c) Arthritis	d) All of the these
(xxxi) Diphtheria is an example of	
a) Bacteraemia	b) Pyaemia
c) Septicemia	d) Toxaemia
(xxxii) Among Micrococcaceae which is no	t pathogenic to human
a) Micrococci	b) Planococci
c) Staphylococcus	d) Both Micrococci and Planococci
(xxxiii) Micrococci found in usually	
a) Skin	b) Mucosal membrane
c) Teeth	d) Both Skin and Mucosal membrane
(xxxiv) Virulent factor in pneumococcus is	
a) Cell wall	b) Capsule
c) Mesosomes	d) Emdotoxins
(xxxv) The following characters are true about	out Neisseria gonorrhoeae except
a) Gram-negative, aerobic bacteria	b) Non-motile diplococci
c) Oxidase positive organisms	d) Air borne infection

(xxxvi) Acid fast bacteria are a) Neisseria b) Staphylococci c) Mycobacteria d) All of the these (xxxvii) Tuberculous meningitis is tested by a) Adenine Dehydrogenase Activity b) Acyl Deaminase Activity c) Adenosine Deaminase Activity d) Adenine Deaminase Activity (xxxviii) Newer Diagnostic Techniques for Mycobacterium tuberculosis b) Septic check acid-fast bacilli system a) Bactec system c) Polymerase chain reaction d) All of these (xxxix) BCG vaccine is for the prevention of a) Brucellosis b) Diphtheria c) Botulism d) Tuberculosis (xl) Dose of BCG vaccine is a) 0.2–0.5 ml b) 0.1 ml d) 0.2 to 0.3 ml c) 0.05 ml (xli) Drugs used against tuberculosis (TB) are a) Refampicin, Isoniazid b) Pyrazinamide, Streptomycin c) Both Refampicin, Isoniazid and d) None of these Pyrazinamide, Streptomycin (xlii) Pulmonary anthrax results a) Bloody diarrhea b) Hemorrhagic meningitis c) Septicemia d) fatality (xliii) Clsotridium welchii is positive for a) Elek's gel precipitation test b) Nagler's test

c) Weil felix test	d) Bacitracin test
(xliv) The first isolated from the faeces of neons	ates
a) Clostridium Difficile	b) Clostridium Botulinum
c) Clostridium tetani	d) Clostridium welchii
(xlv) The following microorganisms with their colonies on bismuth Sulphite agar from A to E:	respective appearance of
a) Salmonella typhi-Black	b) Salmonella-No growth
c) Escherichia coli-yellow	d) Shigella flexneri-green
(xlvi) E.coli produces the following toxins	
a) Enterotoxins	b) Endotoxins
c) Exotoxin	d) Both Enterotoxins and Exotoxin
(xlvii) The colonies produced by Pseudomonas	on Mac Conkey's medium are
a) Purple colored	b) Pink colored
c) Pale colored	d) Green colored
(xlviii) Industrial Production of Vitamin-B12 is	from
a) Propionibacterium sps.	b) Pseudomonas sps.
c) Both Propionibacterium sps. and Pseudomonas sps.	d) None of these
(xlix) Which of the following is most similar to	Rickettsia and Chlamydia
a) Bdellovibrio	b) Clostridium
c) Mycobacterium	d) Mycoldaima
(l) Vibrio cholera differs from vibrio eltor by	
a) It shares some Inaba, Ogawa subtypes with eltor	b) Resistant to polymuxin

c) Eltor is non-motile	d) Causes less subclinical infections as compared to eltor
(li) Yeast extract is an excellent source of	
a) A Vitamin	b) Proteins
c) B Vitamin	d) Carbohydrates
(lii) Tubercular bacilli grow best in	
a) Absence of O2	b) Presence of CO2
c) Presence of O2	d) None of these
(liii) Bacteria are more sensitive to antibioti	ics at which phase of growth curve?
a) Decline phase	b) Stationary phase
c) Lag phase	d) Log phase
(liv) Botulism means	
a) Food adultration	b) Food poisioning by streptococcus bacteria
c) Chemical contamination of food	d) Food processing
(lv) Septicaemia is	
a) Bacteria in blood	b) Toxin in blood
c) Pus in blood	d) Multiplication of bacteria and toxins in blood
(lvi) Plague and Tularemia vaccine can be p	prepared from
a) Chemical fraction of the causative bacteria	b) Heat killed suspension of virulent bacteria
c) Avirulent live bacteria	d) All of these
(lvii) Vaccines are prepared from killed mid	crobes, they are

a) Inactivated (killed) vaccinec) Autogenous vaccine	b) Attenuated vaccinesd) None of these
(lviii) Anthrax vaccine is prepared by	
a) Killing the bacilli	b) Live bacilli
c) Attenuated bacilli	d) None of these
(lix) Attenuated, oral poliomyelitis vaccine is	
a) BCG	b) Measles vaccine
c) Sabin vaccine	d) TAB vaccine
(lx) Raw-material used for the production of al	cohol is
a) Molasses	b) Starch
c) Sulphite waste water	d) All of these