

BRAINWARE UNIVERSITY

Term End Examination 2021 - 22 Programme – Bachelor of Science in Medical Lab Technology Course Name – Immunology & Bacterial Serology Course Code - BMLT401 (Semester IV)

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

[The figure in the margin indicates full marks.]

Group-A

(Multiple Choice Type Question) 1 x 60=60 Choose the correct alternative from the following: (1) Immunology means a) protect from pathogen b) eliminate damaged or malignant cells d) All of these c) Study of immune sytems (2) Specific immunities are referred to as a) Adaptive immunity b) Humoral immunity d) All of these c) Cell-mediated immunity (3) Immunity that Actives B-lymphocytes is called a) Humoral b) Cellular c) All of these d) None of these (4) Immunity that Actives T-lymphocytes is called a) Humoral b) Cellular d) None of these c) All of these (5) Primary lymphoid organ is a) Spleen b) bone marrow c) GALT d) MALT (6) Physiological barriers for innate immunity a) temperature b) pH c) All of these d) None of these

b) Lymphoid lineaged) Bursa of Fabricius4

(7) The site of B cells maturation in birds

a) Erythroid lineage

c) Myeloid lineage

(8) Natural killer cells	
a) Ingest and destroy microbes	b) Ingest and destroy microbes
c) Kill virus infected cells	d) Inhibit viral replication
(9) Interferons	
a) Ingest and destroy microbes	b) Ingest and destroy microbes
c) Kill virus infected cells	d) Inhibit viral replication
(10) defender against parasites	
a) Neutrophil	b) Eosinophil
c) Basophil	d) Macrophage
(11) Major effector cell in allergy	
a) Dendritic cells	b) Monocytes
c) Mast cells	d) Macrophages
(12) Primary portals of entry for pathogens	
a) Respiratory tract	b) Gastrointestinal tract
c) All of these	d) None of these
(13) Immunity in which antibodies produced elsev	where are given to the individual is called
a) Active immunity	b) Passive immunity
c) Innate immunity	d) Acquired immunity
(14) The immunity is stimulated by initial exposur the use of vaccines to artificially establish a s	
a) Artificially acquired Active immunity	b) Naturally acquired Active immunity
c) Naturally acquired passive immunity	d) Artificially acquired passive immunity
(15)Antigen binding site, is a part	of an antibody
a) Paratope	b) Epitope
c) Multivalent	d) Lattice
(16) Formation of Ag-Ab complex, is the mechanic	ism of
a) Agglutination	b) Precipitation
c) Immunofluorescence	d) Opsonization
(17) ELISA means	
a) enzyme-linked immunosorbent assay	b) enzyme-locked immunosorbent assay
c) enzyme-linked immunosubstrate assay	d) None of these
(18) Complement system	
a) consist of 20 serum proteins	b) serum protein act as biological cascade
c) All of these	d) None of these
(19) The most common class of antibody involved	l in hypersensitivity is
a) IgD	b) IgG
c) IgM	d) IgE
(20) Type IV hypersensitivity is also called as	
a) immediate hypersensitivity	b) delayed hypersensitivity
c) cytotoxic hypersensitivity	d) immuno complex hypersensitivity
(21) Antibody dependent cytotoxicity is associated	d with
a) type I hypersensitivity	b) type II hypersensitivity

c) type III hypersensitivity	d) type IV hypersensitivity	
(22) In direct ELISA which is detected in sample?		
a) Antigen	b) Anti body	
c) All of these	d) None of these	
(23) In indirect ELISA which is detected in sample?		
a) Antigen	b) Anti body	
c) All of these	d) None of these	
(24) In sandwich ELISA which is detected in sample?		
a) Antigen	b) Anti body	
c) All of these	d) None of these	
(25) In COMPETITIVE ELISA which is detected in sample?		
a) Antigen	b) Anti body	
c) All of these	d) None of these	
(26) Proteins are separated in an SDS-PAGE experiment on the basis of their		
a) positively charged side chains	b) molecular weight	
c) negatively charged side chains	d) different isoelectric points	
(27) In an SDS-PAGE		
a) proteins are denatured by the SDS	b) proteins have the same charge-to-mass ratio	
c) smaller proteins migrate more rapidly through the gel	d) all of these	
(28) In Western blotting		
a) agarose gel is commonly used	b) polyacrylamide gel is commonly used	
c) high resolution gels	d) All of these	
(29) Auto antigen		
a) Antigen present in ones own cell	b) Alters by the action of virus, bacteria or drug as a nonself	
c) all of these	d) none of these	
(30) Altered or mordified antigen by chemical, physical or microbial agent is called		
a) hidden antigen	b) neo antigen	
c) cross reacting antigen	d) immunoregulation	
(31) thyroiditis is a		
a) localized autoimmune disease	b) organ specific autoimmune disease	
c) all of these	d) none of these	
(32) Rheumatoid arthritis is a		
a) organ specific autoimmune disease	b) non-organ specific autoimmune disease	
c) All of these	d) none of these	
(33) Haemolytic anemia is treated with		
a) chlorine	b) vitamin B12	
c) antimitotic drug	d) penicillin	
(34) Hypersensitivity is		
a) allergy	b) autoimmunity	
c) All of these	d) None of these	

(35) IgE antibody is associated with	
a) Type I hypersensitivity reaction	b) Type II hypersensitivity reaction
c) Type III hypersensitivity reaction	d) Type IV hypersensitivity reaction
(36) Skin is affected by	
a) Type I hypersensitivity reaction	b) Type II hypersensitivity reaction
c) Type III hypersensitivity reaction	d) Type IV hypersensitivity reaction
(37) Dignostic test for delayed hypersensitivity reaction	on:
a) montoux test	b) patch test
c) all of these	d) none of these
(38) Delayed type hypersensitivity is transferred with	
a) monocyte	b) organ
c) lymphocyte	d) T cell
(39) Tertiary binding test measures	
a) the consequences of immune response in vitro	b) the consequences of immune response in vivo
c) all of these	d) none of these
(40) Which of the following immunity is obtained dur	ring a lifetime?
a) active immunity	b) passive immunity
c) acquired immunity	d) innate immunity
(41) How many types of antibodies are there?	
a) five	b) three
c) two	d) four
(42) Which of the following statements is true about the	he IgM of humans?
a) IgM can cross the placenta	b) IgM can protect the mucosal surface
c) IgM is produced by high-affinity plasma cells	d) IgM is primarily restricted in the circulation
(43) Interferons are	
a) Cytokine barriers	b) Physical barriers
c) Cellular barriers	d) Physiological barriers
(44) VDRL test is an example of	
a) Tube test	b) Ring test
c) Slide test	d) none of these
(45) Weil-Felix reaction is based on sharing of antiger	ns between
a) sheep RBCs and EB virus	b) mycoplasma and human O group RBCs
c) rickettsial antigens and antigens of certain strains of Proteus	d) none of these
(46) In which of the following case a large lattice is fo	ormed?
a) Antibody is in excess	b) Antigens and antibodies are in optimal proportion
c) Antigen is in excess	d) None of these
(47) Antibodies are	
a) prostaglandins	b) steroids
c) lipoproteins	d) glycoproteins
(48) Globulins of the blood plasma are responsible for	•

a) defence mechanisms	b) blood clotting
c) oxygen transport	d) osmotic balance
(49) Which of the following antibodies is predominant	tly present in tears, saliva and mucous
a) IgM	b) IgG
c) IgE	d) IgA
(50) The class of antibodies, which can cross placenta	is
a) IgD	b) IgA
c) IgG	d) IgM
(51) Antigen binding sites are present in	
a) Fab regions of an antibody	b) Fc region of an antibody
c) only in the light chain	d) only in the heavy chain
(52) Which of the following technique is used in DNA	fingerprinting?
a) Western blotting	b) Southern blotting
c) Northern blotting	d) Eastern blotting
(53) Probe is a	
a)	b) short piece of labelled DNA which are
protein for detecting a specific DNA molecule	complementary to the nucleic acid strand to be detected
 c) short piece of labelled DNA or RNA which are complementary to the nucleic acid strand to be detected 	d) none of these
(54) The response to an immunogen is often enhanced substances called	if it is administered as a mixture with
a) Epitope	b) Immunogen
c) Adjuvant	d) Antigen
(55) The protein involved in antigen-antibody reaction	ı
a) opsonin	b) Lysine
c) All of these	d) None of these
(56) The cell that ingest and destroy microbes, and pre-	esent antigen to helper T-cells
a) Macrophages	b) Dendritic cells
c) All of these	d) None of these
(57) What do you mean by "biomarkers"	
a) a biomarker is a "biological marker pen that marks perticular organ for diagnosis"	b) a biomarker is "a characteristic that is objectively measured and evaluated as an indicator of normal biological processes"
c) It is a marker that is eco friendly that used in cancer diagnosis.	d) It's a biological process of marking a particular body parts.
(58) Full form of CRP is	
a) C-reactive Protein	b) Cervix Receiving Protein
c) Cornea Reaction Protein	d) C-Reaction Protein
(59) CRP Elevation Factors.	
a) Smoking, Obesity, Diabetic	b) Sleeping, Cycling, Food intake.
c) Obesity, Hardwork, Jogging	d) All of these
(60) In 'C Reactive Protein' the letter 'C' is short for?)

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- a) Cellular
- c) Capsular polysaccharide of pneumococcus
- b) Cytoplasmic
- d) Concanavalin A