

BRAINWARE UNIVERSITY

Term End Examination 2021 - 22 Programme – Bachelor of Science in Medical Lab Technology Course Name – General Biochemistry Course Code - BMLT202 (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) 1 x 60=60 Choose the correct alternative from the following: (1) Which of the following are the major functions of Carbohydrates? a) Storage b) Structural framework d) Both Storage and structural framework c) Transport Materials (2) Which of the following monosaccharides is the majority found in the human body? a) D-type b) L-Type c) LD-types d) None of the above (3) The power house of cell is called a) Cell wall b) Mitochondria c) Ribosomes d) Nucleus (4) Name the pathway for glucose synthesis by non-carbohydrate precursors a) Glycogenesis b) Gluconeogenesis c) Glycogenolysis d) Others (5) Which class of carbohydrates is considered as non-sugar? a) Monosaccharides b) Polysaccharides c) Disaccharides d) Oligosaccharides (6) Hemoglobin is a a) Reproductive pigment b) Carbohydrate d) Respiratory pigment (7) Name the major storage form of carbohydrates in animals

/) Name the major storage form of carbonydrates in animals

a) Cellulose b) Glycogen

c) Chitin d) Starch

(8) Which of the following polysaccharide employed for the assessment of kidney function

a) Albumin

b) Glycogen

c) Keratan sulphate d) Inulin

(9) Sucrose is a made up of two moiety

a) Glucose and Galactose b) Glucose and Fructose

c) Lactose and Fructose	d) None of the above
(10) Name a glycosidic antibiotic	
a) Streptomycin	b) Azithromycin
c) Penicillin	d) Glucovanillin
(11) The α and β cyclic forms of D –glucose are referred	l as:
a) Epimers	b) Anomers
c) Tautomer	d) Both (a) and (b)
(12) Ribose and deoxyribose differ in structure around a	single care namely,
a) C1	b) C2
c) C3	d) C4
(13) What is the site for gluconeogenesis majorly	
a) Liver	b) Blood
c) Muscles	d) Brain
(14) Name the pathway for glucose synthesis by non-car	rbohydrate precursors:
a) Glycogenesis	b) Glycolysis
c) Glycogenolysis	d) Gluconeogenesis
(15) Which of the following are major sites for glycoger	n storage
a) Adipose tissue	b) Bones
c) Muscle and liver	d) Kidney and liver
(16) Name the hormone which is secreted in an emerger	ncy or in stress condition
a) Insulin	b) Epinephrine
c) Glucagon	d) Melanin
(17) Sorbitol and Mannitol are:	
a) Optical isomers	b) Enomers
c) Epimers	d) Steroisomers
(18) Chitin consists of:	
a) N-acetyl muramic acid	b) N-acetyl glucosamine
c) D-glucose unit	d) N-acetyl muramic acid and N-acetyl glucosamine
(19) In polysaccharide, monosaccharide are joined by:	
a) Peptide bond	b) Glucose bond
c) Glycosidic bond	d) Covalent bond
(20) Which is not a homopolysaccharide	
a) Starch	b) Heparin
c) Glycogen	d) Cellulose
(21) Choose a sugar abundantly present in honey:	
a) Maltose	b) Fructose
c) Ribulose	d) Sucrose
(22) Seliwanoff's test is used for the identification of:	
a) Glucose and Fructose	b) Glucose and Lactose
c) Glucose and Maltose	d) None of the above
(23) Glucagon helps to accelerate:	
a) Glycogenolysis	b) Glycogenesis
c) Neoglucogenesis	d) None of the above
(24) Diabetes is caused due to:	
a) Hypoglycemia	b) Hyperglycemia
c) Galactosemia	d) Hyponatremia
(25) Lactulose is disaccharide comprised of:	2 of 5
Page	2 of 5

a) Glucose & Galactose	b) Galactose & Fructose
c) Sucrose & Fructose	d) Fructose and Maltose
(26) Artificial sweetener is:	
a) Sucralose	b) Lactulose
c) Cellobiose	d) Hyaluronic acid
(27) Storage protein includes:	
a) Glutelin	b) Albumin
c) Immunoglobulins	d) None of these
(28) Which of the following amino sugar are present in th	e bacterial cell wall
a) N-acetylmuramic acid	b) Aminoglycoside
c) Azide	d) Sialic acid
(29) Which of the following is non-essential amino acid?	,
a) Lysine	b) Leucine
c) Serine	d) Methionine
(30) Which of these amino acids are essential for infants?	,
a) Methionine	b) Arginine and Histidine
c) Valine	d) Lysine and Leucine
(31) The following non-protein amino acid:	a) Lysine and Leaeme
a) Ornithine	b) Proline
c) Histidine	d) Lysin
(32) Protein is Polymer of:	a) Lysin
a) Peptides	b) Amino acids
c) Carbohydrates	d) Fatty acids
(33) Name of a imino acid:	a) I atty dolds
a) Histidine	h) Truntanhan
c) Tyrosine	b) Tryptophand) Proline
(34) The metabolite excreted in alkaptonuria is:	a) I forme
a) Phenylalanine	b) Bilirubin
c) Alkaline phosphatase	d) None of the above
,	d) None of the above
(35) Which of the following is fibrous amino acid:	1.) Cl.:4:
a) Collagenc) Tyrosine	b) Chitin d) Pepsin
	d) repsiii
(36) Which of the following is Hydrophilic amino acid:	1.) I avaina
a) Lysin	b) Leucine
c) Proline	d) Glycine
(37) What is an apoenzyme?	1 \
a) It is a protein portion of an enzyme active conjuga ted enzyme	b) It is a non-protein group
c) It is a complete, biologically	d) It is a prosthetic group
(38) Hydrolases: catalyze the of various bonds	a) it is a prosinctic group
a) Oxidation	b) Hydrolysis
c) Isomerization	d) None of the above
,	a) None of the above
(39) Deficiency of which vitamin causes Beri-Beri?	h) Vitomin D2
a) Vitamin B12c) Vitamin B6	b) Vitamin B2 d) Vitamin B1
,	,
(40) Megaloblastic anemia is caused due to deficiency of	1. \ Dr 1 1
a) Cobalamin Page 3	b) Pyridoxine

c) Niacin	d) Folic acid
(41) Name the vitamin which functions as hormone	e as well as visual pigment?
a) Thiamine	b) Riboflavin
c) Retinol	d) Folic acid
(42) Which of the following vitamin serves as a ho	,
a) Vitamin C	b) Vitamin A
c) Vitamin K	d) Vitamin D
(43) Name the structure analog of vitamin K, which	,
a) Warfarin	b) Tocopherol
c) Ergocalciferol	d) β-carotene
(44) Which of the following is NOT an endocrine g	• •
a) Hypothalamus	b) Pituitary
c) Parathyroid	d) Sweat glands.
(45) Mark the one, which is NOT the precursor of	•
a) Amino acids	b) Cholesterol
c) Phospholipids	d) Proteins
, 1	d) I fotenis
(46) Sex hormone is a	h) Fat aalaskla kassaasa
a) Water soluble hormone	b) Fat soluble hormone
c) Protein hormone	d) None of the above
(47) Name the gland, which releases Neurohormon	
a) Hypothalamus	b) Pituitary
c) Thyroid	d) Pancreas
(48) Name the energy source of the brain during sta	
a) Fat	b) Ketone bodies
c) Protein	d) Lipid
(49) Lipoprotein core contain	
a) VLDL	b) Triglyceride
c) Phopholipid	d) All of these
(50) What is the outcome of the accumulation of ac	cetyl-CoA in the mitochondria of the liver?
a) It is used as an energy source	b) It has broken down in to free fatty acids
c) It gets converted to oxaloacetate	d) It forms ketone bodies
(51) Which of the following is NOT an example of	an electrolyte:
a) Creatinine	b) Potassium
c) Calcium	d) Magnesium
(52) A nucleotide is composed of	
a) A base+sugar	b) A base+a sugar+Phosphate
c) A base+a phosphate	d) None of these
(53) Which of the following is not a researched me	ans of delivering therapeutic DNA for gene therap
y?	
a) Polymers	b) Liposomes
c) Bacteria	d) Viruses
(54) Watson & Crick discover the DNA, They called	ed it is:
a) Helical & Double stranded	b) Double-helix
c) Twisted-ladder	d) Double stranded
(55) HDLs are synthesized in	
a) Blood	b) Liver
c) Intestine	d) Pancreas
The state of the s	Page 4 of 5

(56) Cholesterol is the precursor of	
a) Steroid hormones	b) Vitamin A
c) Bile salts	d) Both (a) and (c)
(57) Synthesis of fatty acid takes place when	
a) fatty acid are plentiful	b) Carbohydrate is plentiful
c) carbohydrate and energy are plentiful	d) none of these
(58) Which of the following amino acids is consider	ered as both ketogenic and glucogenic?
a) Valine	b) Tryptophan
c) Lysine	d) None of these
(59) Transamination reaction in amino acid synthe	sis is catalyzed by enzyme
a) Nitric oxide synthase	b) Decarboxylase
c) Aminotransferase	d) Glutamate decarboxylase
(60) A tripeptide has	
a) 3 amino acids and 1 peptide bond	b) 3 amino acids and 2 peptide bonds
c) 3 amino acids and 3 pentide bonds	d) 3 amino acids and 4 pentide bonds