

BRAINWARE UNIVERSITY

Term End Examination 2020 - 21

Programme – Bachelor of Physiotherapy Course Name – Medical Biochemistry Course Code - BPT103 Semester / Year - Semester I

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.]

	answers in their ow	'n words as far as practicable.]	
		Group-A	
	(Multipl	e Choice Type Question)	1 x 60=60
1. (4	Answer any Sixty)		
(i) What is membrane	•	inhibits Na+/K+ pump across the	he cell
a) Taxo	ol	b) Vinblastine	
c) Oual	oain	d) Quinone	
(ii) Which kidney fun	U 1	ride employed for the assessmen	nt of
a) Albu	ımin	b) Glycogen	
c) Kera	tansulphate	d) Inulin	
(iii) Sucros	se is a made up of two moiet	y:	
a) Gluc	ose and Galactose	b) Glucose and Fructo	ose
c) Lact	ose and Fructose	d) None of these	
(iv) Name	a glycosidic antibiotic used	for tuberculosis:	
a) Strep	otomycin	b) Azithromycin	
c) Peni	cillin	d) Glucovanillin	
(v) The car	bon atom involved in osazo	n formation :	
a) 1 and	d 2	b) 3 and 4	

c) 2 and 3	d) 5 and 6
(vi) The ? and ? cyclic forms of D –glue	cose are referred as:
a) Epimers	b) Anomers
c) Tautomer	d) Both Epimers and Anomers
(vii) What is the site for gluconeogenes	is
a) Liver	b) Blood
c) Muscles	d) Brain
(viii) Which of the following are major	sites for glycogen storage
a) Adipose tissue	b) Bones
c) Muscle and liver	d) Kidney and liver
(ix) All test are positive for lactose exce	ept:
a) Benedict test	b) Barfoed's test
c) Fehling's test	d) Osazon test
(x) In Benedict test we can differentiate	»:
a) Glucose and Maltose	b) Glucose and Sucrose
c) Fructose and Glucose	d) None of these
(xi) 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
(xii) Name of a protein derivative helps	in blood clotting:
a) ? carbonic anhydrase	b) ?carboxy glutamic acid
c) Oxytosin	d) Aspartame

(xiii) Heat coagulation test is commonly u	ised for:
a) Glutelin in urine	b) Albumin in urine
c) Immunoglobulins	d) None of these
(xiv) Parkinson's Disease is linked with de	ecreased synthesis of:
a) Seratonin	b) Arginine
c) Dopamine	d) None of these
(xv) Valine is classified as:	
a) Hydrophobic amino acid	b) Hydrophilic amino acid
c) Positively charged amino acid	d) Hydrophobic aliphatic amino acid
(xvi) Hemoglobin is an example of	
a) Secondary Protein	b) Tertiary protein
c) Quaternary Protein	d) Polypeptide
(xvii) Biuret test is used to detect:	
a) Phenol group	b) Peptide linkages in amino acids
c) ?Amino acids	d) All of these
(xviii) The lock and Key hypothesis attem	pts to explain the mechanism of:
a) Vacuole formation	b) Pinocytosis
c) Sharing of electrons	d) Enzyme specificity
(xix) Which of the following is not a fat-se	oluble vitamin
a) Vitamin D	b) Vitamin K
c) Vitamin C	d) Vitamin A
(xx) Megaloblastic anemia is caused due t	o deficiency of
a) Cobalamin	b) Pyridoxine

c) Niacin	d) Folic acid
(xxi) Name the structure analog of	vitamin K, which is used as anticoagulant?
a) Warfarin	b) Tocopherol
c) Ergocalciferol	d) ?-carotene
(xxii) Scurvy is due to the deficience	ey of
a) Vitamin A	b) Vitamin B
c) Vitamin D	d) Vitamin C
(xxiii) Pernicious Anemia is caused	I by deficiency of:
a) Vitamin B2	b) Vitamin B12
c) Vitamin B6	d) Vitamin B5
(xxiv) Pellagra is caused due to	
a) Niacin	b) Thiamin
c) cobalamin	d) Riboflavin
(xxv) Which of the following is NO	OT an example of an electrolyte:
a) Creatinine	b) Potassium
c) Calcium	d) Magnesium
(xxvi) Enzymes functions as:	
a) Organic catalysts	b) Inorganic Catalysts
c) Inhibitors	d) Phosphodiester bond
(xxvii) Adenine bonds with	•••••
a) Guanine	b) Cytosin
c) Uracil	d) Thymine

(xxviii) Watson & Crick discover the DNA,	They called it is:
a) Helical & Double stranded	b) Double-helix
c) Twisted-ladder	d) Double stranded
(xxix) Synthesis of fatty acid takes place who	en
a) fatty acid are plentiful	b) Carbohydrate is plentiful
c) carbohydrate and energy are plentiful	d) none of these
(xxx) VLDL stands for	
a) Very low density lipid	b) Very Low Density liquid
c) Very Low Density Lipoprotein	d) None of these
(xxxi) What is the best description of blood?	
a) Sol	b) Foam
c) Solution	d) Aerosol
(xxxii) All the monosaccharides are optically	active except:
a) Glyceraldehyde	b) Fructose
c) Arabinose	d) Dihydroxyacetone
(xxxiii) Which one of the following is an acid	dic amino acid?
a) Palmitic acid	b) Aspartic acid
c) Pyruvic acid	d) Lysine
(xxxiv) Hemoglobin can be qualitatively dete	ected by:
a) Benedict's test	b) Neumann's test
c) Rothera's test	d) Benzidine test
(xxxv) An exopeptidase is:	
a) Elastase	b) Chymotrypsin

c) Trypsin	d) Carboxy peptidase
(xxxvi) Serum amylase is highly raised in:	
a) Diabetes mellitus	b) Liver disorders
c) Acute pancreatitis	d) Acute pancreatitis
(xxxvii) Which is the fat soluble vitamin?	
a) Riboflavin	b) Vitamin K
c) Folic acid	d) Vitamin C
(xxxviii) Electrophoresis is based on the princ	ciple of:
a) Migration of charged particles in an electric field	b) Dialysis
c) Osmosis	d) Movement of particles between stationary phase & moving phase
(xxxix) Zn+2 is the inorganic cofactor for enz	zyme:
a) Carbonic acid	b) Carbonic anhydrase
c) Phosphatase	d) Chymotrypsin
(xl) Vitamins are essential to the survival of o usually functions as:	rganisms because vitamins
a) Substrate	b) Nucleic acid
c) Co-enzyme	d) Nucleosides
(xli) In Malaria which organ effects most?	
a) Heart	b) Brain
c) Liver	d) Small intestine
(xlii) Thin blood smear for malaria parasites	
a) Use to determine if parasite is present	b) Use to confirm the Plasmodium species

present

c) Use to confirm the Culex species present	d) None of them
(xliii) Which of the following cells may develo marrow?	p in sites other than the bone
a) Monocyte	b) Lymphocyte
c) Megakaryocyte	d) Neutrophil
(xliv) Allergic reactions are frequently associat presence of:	ed with an increase in the
a) Lymphocytes	b) Neutrophils
c) Monocytes	d) Eosinophils
(xlv) Which of the following tissues is the least	hydrated?
a) nervous tissue	b) Muscle tissue
c) Bone tissue	d) Adipose tissue
(xlvi) International normalized ratio is calculate	ed from:
a) Prothrombin time	b) Thromboplastin time
c) Active partial thromboplastin time	d) Clotting factors
(xlvii) The red color of hemoglobin is due to:	
a) Heme	b) Alfa globin
c) Beta globin	d) All of them
(xlviii) Which is the following lipid act as a lur	igs surfactant
a) Phosphatidyl choline	b) Ceramide
c) Cholesterol ester	d) All of these
(xlix) Disorder of urea cycle leads to	
a) Hyperammonaemia	b) Hypovolemia

c) Hypertrophy	d) All of these
(l) Keratin is a	
a) Nucleoprotein	b) fibrous protein
c) Metalloprotein	d) Glycoprotein
(li) The chemical name of ajinomoto is	
a) Monosodium glutamate	b) Monosodium glycine
c) Mono sodium carbamate	d) None of these
(lii) Foamy urine is associated with:	
a) Jaundice	b) Anemia
c) Proteinuria	d) None of these
(liii) In acute pancreatitis which serum enzyme	e elevates:
a) Albumin	b) Amylase
c) Aldolase	d) Alkaline phosphatase
(liv) Creatine phosphokinase is related to	
a) Liver diseases	b) early marker of myocardial infarction
c) Jaundice	d) cancer
(lv) Cholesterol is synthesized from:	
a) Triglyceride	b) Acetyl CoA
c) Fatty acid	d) . Bile
(Ivi) When the concentration of Na+ in the EC	F decreases
a) a person experiences an increased thirst	b) osmoreceptors are stimulated
c) there is an increase in the level of aldosterone	d) more increased release of Aldosteron

(lvii) The condition in which sodium lev	vels are too low is referred to as
a) Aldosteronism	b) hyponatremia
c) Cushing's disease	d) hyperkalemia
(lviii) Which of the following has the hi	ighest calorific value ?
a) Fats	b) Proteins
c) Vitamins	d) carbohydrate
(lix) The mineral in the body which help maintain the balance of fluid in the body	•
a) sodium	b) iodine
c) chromium	d) chlorine
(lx) The incorporation or conversion of constituting the body is called	simple food into complex materials
a) digestion	b) assimilation
c) dissimilation	d) absorption