



BRAINWARE UNIVERSITY

Term End Examination 2023-2024 Programme – B.Physiotherapy-2022/B.Physiotherapy-2023 Course Name – Clinical Biochemistry Course Code - BPTC103 (Semester I)

Full Marks: 60

Time: 2:30 Hours

[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 15=15

- Choose the correct alternative from the following:
 (i) Von Willebrand disease is correlated with

 a) Platelet activation
 b) fibrin formation
 c) Platelet plug formation
 d) Both fibrin formation and Platelet plug formation

 (ii) Creatine kinase is related to

 a) Liver diseases
 b) early marker of acute myocardial infarction
 c) Jaundice
 d) cancer

 (iii) The biochemical investigation of the blood specimen showed Bilirubin- 4.5 mg/dl, ALT-150 IU/L, AST- 200 IU/L, Albumin- 25 mg/dL. What is the likely biochemical diagnosis?
- c) Chronic hepatic disease d) Obstructive liver disease (iv) Identify the major storage form of carbohydrates in animals
 - a) Glucose

b) Glycogen

c) Starch

d) Chitin

(v) Dextrin is an example of:

a) Hemolytic Jaundice

a) Disaccharide

b) Oligosaccharide

b) Acute hepatic disease

c) Homopolysaccharide

d) Glycoprotein

(vi) Which of the following enzymes are not involved in galactose metabolism?

a) Galactokinase

b) Galatokinase

c) Glucokinase

d) UDP-Galactose 4- epimerase

(vii) Choose among which one is a tricarboxylic acid?

a) Acetic acid

b) Succinic acid

c) citric acid

d) Oxaloacetic acid

(viii) Identify the hormones responsible for increasing gluconeogenesis in the liver during prolonged starvation?

a) TSH

b) Insulin

 c) Thyroxine (ix) The diseases caused due to protein deficient 	d) Glucagon cy?	
a) Anaemia	b) Kwashiorkor	
c) Hypothyroidism	d) All of these	
(x) The first person to discover vitamin		
a) Jennar	b) Funk	
c) Mallanby	d) Calvin	
(xi) Pick the most essential nutrient for a woman	•	
prevent birth defects?		
a) Thiamin	b) Folic acid	
c) Vitamin C	d) Vitamin E	
(xii) The scientific name of Vitamin K is		
a) Ascorbic acid	b) Phytonadione	
c) Tocopherol	d) Pantothenic	
(xiii) Plasma albumin performs the following function		
a) Osmotic	b) Transport	
c) Nutritive	d) All of them	
(xiv) Write an example of keto hexose-	d) / iii or them	
a) Galactose	h) Glusoso	
c) Mannose	b) Glucose d) Fructose	
(xv) Molisch test is used to predict-	d) Tructose	
a) Protein	b) Lipid	
c) Carbohydrate	d) All of these	
Gr	oup-B	
(Short Answer	r Type Questions)	3 x 5=15
2. Define MUCOPOLYSACCHARIDES with example.		(3)
3. Differentiate between fat soluable vitamin & water soluable vitamin with example		(3)
4. Difference between essential and non essential		(3)
5. Define BMR and its significance.		(3)
6. Formulate Respiratory quotient of foodstuffs		(3)
	OR	
Speculate Net protein utilization (NPUI) and its	significance	(3)
Gr	oup-C	
(Long Answer		F v C-20
(Long Answer	Type Questions)	5 x 6=30
. Define and item and actions are all the second		
7. Define sodium potassium pump and its mecha		(5)
3. Illustrate the importance of serum enzymes in		(5)
Differentiate between glycemic load and index	200	(5)
0. Explain the role of Fibers in nutrition		(5)
Give examples Glycogen storage disease	structure.	(5)
2. Discuss the protein-energy malnutrition with s	pecial reference to kwashiorkor OR	(5)
Justify that citric acid cycle is the final common	n metabolic pathway for the oxidation of	(5)
foodstuff	, , , , , , , , , , , , , , , , , , , ,	(5)
	And the second of the second of the second	
** ** ** ** ** ** ** ** ** ** ** ** **		