



BRAINWARE UNIVERSITY

Term End Examination 2023 Programme – B.Pharm-2019/B.Pharm-2020/B.Pharm-2021/B.Pharm-2022 Course Name – Biochemistry/Biochemistry – Theory Course Code - BP203T (Semester II)

Full Marks: 75

Time: 3:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own

[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 20=20

- 1. Choose the correct alternative from the following:
 - (i) Report the formula of Glucose

a) C6H1205

b) C5H11O6

c) C6H12O6

- d) C5H10O6
- (ii) Name the enzyme which catalyzes the oxidation-reduction reaction?

a) Transaminase

b) Glutamine synthetase

c) Phosphofructokinase

- d) oxidoreductase
- (iii) Indicate the component which is not a part of RNA?

a) Thymine

b) Adenine

c) Guanine

d) Cytosine

(iv) Identifky the correct pH of Urine

a) 4.5-8.0

b) 7.4-7.5

c) 45113

d) 45177

(v) Select the correct level of fasting blood sugar is

a) 60-120 mg/dl

b) 70-100 mg/dl

c) 60-150 mg/dl

d) 90-150 mg/dl

(vi) Indicate the iodine value of olive oil

a) 46

b) 88

c) 66

d) 90

(vii) Recognize the component which is not a part of phospholipid?

a) Phosphate

b) Alcohol

c) Glycerol

d) Protein

(viii) Describe the full form of ATP		
a) adenosine tri phosphate	b) adenosine di phosphate	
c) adenine tri phosphate	d) adenosine triose phosphate	
(ix) Define Gluconeogenesis		
a) glucose to glycogen	b) non carbohydrate to glucose	
c) glucose to glycerol	d) All of these.	
(x) Describe Glycogenolysis		
a) break down of glucose	b) break down of glycogen	
c) glucose to glycogen	d) Fats to glycogen	
(xi) Identify the chemical nature of an enzyme?		
a) Vitamin	b) Lipid	
c) Carbohydrate	d) Protein	
(xii) Name the causetive agent of Athreosclerosis in artery		
a) LDL	b) VLDL	
c) HDL	d) Cholesterol	
(xiii) State the number of double bond present in ara		
a) 1	b) 2	
c) 4	d) 6	
(xiv) Peptide bond can be chemically identified as	Mark to the control of the control of	
a) Covalent bond	b) Ionic bond	
c) Metallic bond	d) Hydrogen bond	
(xv) Choose the full form of VLDL	TVII. V. S.E.E. S. V. V. V.	
a) Very low density lipid	b) Very liquid density lipidd) Very liquid density lipoprotein	
c) very low density lipid (xvi) Predict which organ doesn\'t work right in a per		
a) pituitary gland c) adrenal glands	b) pancreas d) kidneys	
(xvii) Write the first law of thermodynamics?	u) kluneys	
-1	b) Energy cannot be 100 percent efficien	atly
a) Energy can neither be destroyed nor created	transformed from one type to another	
C)	d) Input of heat energy increases the ra	
All living organisms are composed of cells	movement of atoms and molecules	
(xviii) Write the name of the pathway for glucose synthesis by non-carbohydrate precursors?		
a) Glycogenesis	b) Glycolysis	
c) Gluconeogenesis	d) Glycogenolysis	
(xix) Choose the hormone which is secreted in an em	ergency or in stress condition?	
a) Epinephrine	b) Glucagon	
c) Insulin	d) Adrenaline	
(xx) Name the enzyme secreted by pancreas?		
a) Pepsin	b) Chymotrypsin	
c) Trypsin	d) Alcohol dehydrogenase	
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Grou (Short Answer T	The state of the s	5 x 7=35
(Short Answer Type Questions) 5 x 7=35 Answer all the Questions		
Describe Briefly disorder of protein metabolism. Discuss about alvesgen storage discoss (GSD)		(5) (5)
3. Discuss about glycogen storage disease(GSD).4. Explain the terms; reversible inhibition and irreversible inhibition.		(5)
the terms, reversible initiation and intevers		

5. Describe briefly classification of amino acid.	(5)
6. Describe the degradation pathway of purine and pyrimidine.	(5)
7. Write about "Redox couples"? Explain briefly about Positive and negative redox p	otential. (5)
OR	
Write about high energy Compounds? Write a short note on Pyrophosphates unde energy compounds.	er the high (5)
8. Explain the Biological Significance of cAMP.	(5)
OR	46.7
Explain about Biological Significance of Cholesterol.	(5)
Group-C	
(Long Answer Type Questions)	10 x 2=20
Answer all the Questions	
9. Define "lipids". Classify them and give their biological significance.	(10)
 Explain in brief about HMP shunt and its importance and Illustrate the Structure of messenger RNA. 	and functions (10)
OR	
Explain in brief about classification of enzyme. Explain in brief about enzyme inhi	ibition. (10)

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