

PARUL UNIVERSITY
PARUL INSTITUTE OF APPLIED SCIENCES
MID SEMESTER INTERNAL EXAMINATION, SEPTEMBER 2018
B. Sc. Semester I Biochemistry

Paper Code: 11103102

Biomolecules

Date: 06/09/2018

Time: 90 mins.

Maximum Marks: 40

Instructions:

- 1. All questions are compulsory and options are given in first and second question only.**
- 2. Numbers to the right of question indicate the marks of respective question.**

Q. 1	Attempt any one question of the following. (i) Explain the classes of phospholipids and their functions. (ii) Explain optical isomerism in detail with examples.	(08)
Q. 2	Attempt any three questions of the following. (i) Describe the structure of steroids. (ii) Write a note on blood buffers. (iii) Explain the properties of triacylglycerols. (iv) Classify the amino acids on the basis of structural & functional properties. (v) What are physical properties of monosaccharides.	(12)
Q. 3	Do as directed. Attempt all five questions. (i) Define: Lipoproteins. (ii) Define: iodine number (iii) Expand PUFA (iv) Which amino acid contains imidazole group. (v) Define : monosaccharides.	(05)
Q. 4	Write correct option in your answer sheet for following 15 multiple choice questions.	(15)

MCQ 1	Butanoic acid can also be written as			
	(A)	2:0	(B)	3:0
	(C)	4:0	(D)	5:0
MCQ 2	Number of double bonds in arachidonic acid are			
	(A)	1	(B)	2
	(C)	3	(D)	4
MCQ 3	Ergostrol is present in			
	(A)	plants	(B)	Animals
	(C)	Both	(D)	None of the above
MCQ 4	Water is the solvent of life			
	(A)	True	(B)	False
MCQ 5	Endogenous water is also known as			
	(A)	Exogenous water	(B)	Ingested water
	(C)	Metabolic water	(D)	Environmental water
MCQ 6	A diet rich in _____ proteins results in more acid production in the body.			

	(A)	plant	(B)	Microbial
	(C)	Animal	(D)	Synthetic
MCQ 7	Rise in blood pH is known as			
	(A)	Acidosis	(B)	Alkalosis
	(C)	Acidemia	(D)	None of the above
MCQ 8	Sphingomyelins do not contain sphingosine			
	(A)	True	(B)	False
MCQ 9	All fat soluble vitamins are isoprenoids			
	(A)	True	(B)	False
MCQ 10	_____ is the simplest form of lipids			
	(A)	Cephalin	(B)	Steroids
	(C)	Fatty acids	(D)	Carotenoids
MCQ 11	Esterification of cholesterol occurs at _____ C position			
	(A)	1	(B)	3
	(C)	2	(D)	4
MCQ 12	The imino acid found in protein structure.			
	(A)	Histidine	(B)	Lysine
	(C)	Proline	(D)	Arginine
MCQ 13	Bonds found in amino acid is			
	(A)	Peptide bond	(B)	Disulfide bond
	(C)	Amide bond	(D)	Glycosidic bond
MCQ 14	L and D refers to			
	(A)	Absolute configuration of the isomers	(B)	Phosphoryl choline
	(C)	Sugar residue	(D)	Hydroxyl group
MCQ 15	A monosaccharide is			
	(A)	Sucrose	(B)	Maltose
	(C)	Lactose	(D)	Ribose

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