REV-01 BMB/27/32

a. Nucleoside

c. Vitamin

a. Inhibitors

c. Prosthetic group

2023/12

SET

FIRST SEMESTER MAMMALIAN PHYSIOLOGY AND BIOCHEMISTRY BMB-102

B.Sc. MICROBIOLOGY

[USE OMR SHEET FOR OBJECTIVE PART] Duration: 1hr. 30 mins

Dι	ration: 1hr. 30 mins.		,	Full Marks: 35	
Time: 15 mins. (Objective) Marks: 10					
Ch	oose the correct answer from the follo	win	g:	1×10=10	
1.	The compounds having the same structural around one carbon atom are called: a. Optical isomer c. Sterioisomers	b.	mula but differing in con Anomers Epimers	figuration	
2.	In the intestine the dietary fats are hydrolys a. Triacylglycerol lipase c. Pancreatic lipase	b.	by: Adenylate cyclase Protein kinase		
3.	Which of the following is a carbohydrate was Starch c. Dextrin	b.	no nutritional value? Glycogen Cellulose		
4.	Which of the following techniques is used to a. X-ray crystallography c. Magnetic resonance imaging (MRI)	b.	etermine the protein struc Kryptonics X-ray vision None of the above	tures?	
5.	Which of the following is the smallest carbo a. Ribose c. Glyceraldehyde	b.	lrate-triose? Glucose Dihydroxyacetone		
6.	Which of the following is not a intermediate a. Acetoacetate c. Oxalosuccinate	b.	citric cycle? Citrate Succinyl CoA		
7.	All of the reactant will be converted to prod a. Will never reach equilibrium c. Will proceed at a rapid rate	b.	s: Will not occur spontaned Will proceed at a rapid ra		
8.	ATP is a:				

9. Metal ions that temporary binds substrate and active site of 'enzyme' is called:

b. Nucleotide

d. Nucleic acid

b. Coenzymes

d. Cofactors

10. Which of the following is NOT an endocrine gland?a. Hypothalamusb. Pituitary

c. Parathyroid

d. Pancreas

$\left(\underline{\text{Descriptive}} \right)$

Time: 1 hr. 15 mins.		
	[Answer question no.1 & any two (2) from the rest]	
1.	What is hematopoiesis? Write a note on stem cells.	5
2.	Explain the process of digestion and absorption of: a) Carbohydrate b) Protein	5+5=10
3.	What are the triggering factors of blood clotting? Explain the intrinsic and extrinsic pathway in detail.	5+5=10
4.	Define Proteins. What are the forces stabilizing the structure of proteins?	3+7=10
5.	Explain the process of mechanism of contraction of muscle.	10

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