Reg. No.:					

Question Paper Code: 53113

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2020

Third Semester

Biomedical Engineering

15UBM303 - BIOCHEMISTRY

(Regulation 2015)

Duration: One hour Maximum: 30 Marks

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D	uration: One nour	IVI				
	PAR	$\Gamma A - (6 \times 1 = 6 \text{ Marks})$				
	(Answer any	six of the following questions				
1.	Starch is					
	(a) Disaccharide	(b) Oligosaccharide				
	(c) Polysaccharide	(d) None of these				
2.	The hydrolysis products of sucrose	e are				
	(a) Maltose	(b) Glucose only				
	(c) Glucose & Fructose	(d) Fructose only				
3.	Trimalmitin belongs to the categor	ry of				
	(a) Proteins	(b) Lipids				
	(c) Enzymes	(d) None of the above				
4.	Nucleotides are condensation products of nucleosides with					
	(a) Phosphoric acid	(b) Perchloric acid				
	(c) Sulphuric acid	(d) Niric acid				
5.	Which of the following bases is not present in DNA?					
	(a) Adenine	(b) Guanine				
	(c) Urasil	(d) Cytosine				

6.	∝-helix refers to				
	(a) Primary structures of proteins	(b) Secondary structure of	proteins		
	(c) Tertiary structure of proteins	(d) Quaternary structure of	proteins		
7.	Nucleic acids are polymers of				
	(a) Nucleotides	(b) Nucleosides			
	(c) Nuclei of heavy metals	(d) Proteins			
8.	Invert sugar is				
	(a) A verity of cane sugar	(b) Optically inactive form of su	ıgar		
	(c) Mixture of glucose and fructose	(d) Mixture if Glucose and Gala	actose		
9.	The non-proteinous substance which cer	tain enzymes require for their act	ivity are called		
	(a) Catalysts	(b) Inhibitors			
	(c) Co-Enzymes	(d) Epimers			
10.	Which of following is not a glycenide?				
	(a) Lipids	(b) Fats			
	(c) Phosphalipids	(d) Soaps			
	PART – B (3	3 x 8= 24 Marks)			
	(Answer any three of	f the following questions)			
11.	Explain in detail the Chemical reacti	ons in metabolic processes.	(8)		
12.	Explain the biological nitrogen fixation mechanism with flow chart. (8)				
13.	Write notes on: (i) Monosaccha (iv) Mucopolysaccharides.	rides (ii) Disaccharides (iii)	Polysaccharides (8)		
14.	Describe the structure and classifica	tion of aminoacids along with the	eir		
	structures.		(8)		
15.	15. Explain in detail the "Mechanism of Enzyme action".				