Roll	No.		Total No. of Pages : 03		
Total No. of Questions : 22					
		017 & Onwards) OCHEMISTRY	(Sem2)		
Subject Code : BP-203T					
M.Code : 74969					
Time: 3 Hrs. Max. Marks: 75					
INIS	TRUCTIONS TO CANDIDATES	: •			
	 SECTIONS TO CANDIDATES. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each. 				
2.	 SECTION-B contains THREE questions carrying TEN marks each and studer have to attempt any TWO questions. SECTION-C contains NINE questions carrying FIVE marks each and students 				
3.					
	have to attempt any SEVEN of	uestions.			
		SECTION-A			
Choose correct answer of the following objective type questions :					
1.	In nucleotide nitrogenous base is linked with ribose by				
	A. N-glycosidic bond	B. O-glycosidic bon	d		
	C. Peptide bond	D. Phosphodiesterase			
2.	Glycogen is of glucose :				
	A. Homo polysaccharide	B. Hetero polysaccha	ride		
	C. Oligosaccharide	D. Disaccharide			
3.	Storage material of fuel in plant is :				
	A. Starch	B. Glycogen			
	C. Glucose	D. Galactose			
4.	Amino acids in proteins are usually in :				
	A. L-isomer	B. D-isomer			

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D. None of above

C. A & B both

5.	For endergonic reactions ΔG is			
	A. Positive	B. Negative		
	C. Zero	D. Slightly negative		
6.	Expand the short form 'PRPP'			
	A. 5-Phosphoribosyl 1-pyrophosphate			
	B. 1-Phosphoribosyl 5-pyrophosphate			
	C. 5-Phosphoribosyl 2-pyrophosphate			
	D. 5-Phosphoribosyl 3-pyrophosphate			
7.	How many NADH molecules are generated in complete oxidation of one molecule of Acetyl -CoA			
	A. 4	B. 2		
	C. 5	D. 3		
8.	Synthesis of fatty acid takes place	thesis of fatty acid takes place in		
	A. Cytosol	B. Mitochondria		
	C. Both in A & B	D. Membrane		
9.	Coenzyme derived from vitamin B3 is			
	A. NAD	B. NADP		
	C. A& B both	D. FAD		
10.	Nonsense coden is			
	A. UAA	B. UGA		
	C. UAG	D. All three		

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SECTION-B

- 11. Compare reactions of glycolysis and HMP shunt. Comment on deficiency of G6PD
- 12. Describe various steps of de nove synthesis of pamitic acid. Explain the role citrate shuttle.
- 13. Describe various steps of protein synthesis. Comments on its inhibitors.

SECTION-C

- 14. Classify amino acid on the basis of side chain.
- 15. Draw structure of ATP and describe its biological, significance as high energy molecules.
- 16. Name three enzymes involved in glycogenolysis. Describe their reactions.
- 17. Differentiate between oxidative phosphorylation and substrate level phosphorylation.
- 18. Describe formation and utilization of ketone bodies.
- 19. Describe the biological significance and biosynthesis of adrenaline.
- 20. Discuss the metabolic disorder of tyrosine.
- 21. Discuss the semi-conservative model of DNA replication.
- 22. Describe reactions of urea cycle.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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