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C. Peptide bond D. Phosphodiesterase 2. Glycogen is of glucose : A. Homo polysaccharide Hetero polysaccharide C. Oligosaccharide D. Disaccharide Storage material of fuel in plant is : 3. A. Starch B. Glycogen C. Glucose D. Galactose Amino acids in proteins are usually in : 4. A. L-isomer B. D-isomer

C. A & B both D. None of above

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Total No. of Questions : 22

A. N-glycosidic bond

#### B.Pharma (2017 & Onwards) (Sem.-2) BIOCHEMISTRY Subject Code : BP-203T M.Code: 74969

Time: 3 Hrs.

1.

Max. Marks: 75

**INSTRUCTIONS TO CANDIDATES :** 

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.
- SECTION-C contains NINE questions carrying FIVE marks each and students 3. have to attempt any SEVEN questions.

## **SECTION-A**

B. O-glycosidic bond

### Choose correct answer of the following objective type questions :

In nucleotide nitrogenous base is linked with ribose by

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5.	For endergonic reactions $\Delta G$ 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	in off
	A. Cytosol	B. Mitochondria
	C. Both in A & B	D. Membrane
9.	Coenzyme derived from vitamin F	b3 is
	A. NAD	B. NADP
	A. NAD 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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