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SUBJECT CODE NO: - F-6121
FACULTY OF SCIENCE AND TECHNOLOGY
M.Sc. (Sem-I) (Zoology (Old))
Examination December/January-2022-23
Biochemistry-403

[Time: 3:00 Hours]

[Max. Marks:80]

Please check whether you have got the right question paper.

N. B

- 1) Draw diagram wherever necessary.
- 2) Part –A is compulsory carry 20 Marks.
- 3) Part-B Attempt any five questions.

Part -A

Q1 Attempt the following multiple choice questions.

20

1. Amino acid are joined by.
 - a. Peptide bond
 - b. Hydrogen bond
 - c. ionic bond
 - d. glycosidic bond
2. Strongest bond.
 - a. Vander walls
 - b. Convaleat bond
 - c. Electrostratic
 - d. Hydrogen bonding.
3. Calcium deficiency in the body occurs in absence of _____
 - a. Vitamin C
 - b. Vitamin D
 - c. Vitamin A
 - d. Vitamin E
4. Genetic mutation occure in _____
 - a. Protein
 - b. RNA
 - c. DNA
 - d. Nucleus
5. The length of one turn of DNA is _____
 - a. 3.4 A°
 - b. 34 A°
 - c. 20 A°
 - d. 3.04 A°
6. chromatin is composed of _____
 - a) Nucleic acid and Protein
 - b) Nucleic acid only
 - c) Protein only
 - d) none of these
7. Amino acids are joined by _____
 - a. Peptide bond
 - b. hydrogen bond
 - c. Ionic bond
 - d. glycosidic bond
8. Enzymes are _____
 - a. Protein
 - b. carbohydrates
 - c. nucleic acid
 - d. DNA molecules
9. Main stores of glycogen are found in _____
 - a. Adipose tissue
 - b. Skeletal muscles
 - c. Brain
 - d. Erythrocytes

10. RNA required for the Protein synthesis.

- a. mRNA b. tRNA c. rRNA d. all of these

Part –B

Attempt any five questions

- Q2 Write structure and properties of atom. 12
- Q3 What are the chemical structure and function of lipids? 12
- Q4 Give in detail classification of vitamins. 12
- Q5 What are enzymes and its functions. 12
- Q6 What is human bioenergetics and its importance. 12
- Q7 What is secondary structure of protein. 12
- Q8 Explain biochemistry of isozymes. 12