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**SUBJECT CODE NO:- 6121**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**M.sc (Sem-I) Zoology (Old)**  
**Examination March/April-2022 (To be held in June/July-2022)**  
**Biochemistry-403**

[Time: 3:45 Hours]

[Max. Marks:80]

Please check whether you have got the right question paper.

N.B

- i) Draw diagram whether necessary
- ii) Part-A is compulsory carry 20 Marks
- iii) Part-B attempt any five questions.

Part - A

Q.1 Attempt the following multiple choice questions

20

1. Enzymes are \_\_\_\_\_
  - a) Protein
  - b) Carbohydrates
  - c) Nucleic acid
  - d) DNA
2. The first-protein sequenced by Frederick sugar is
  - a) Hemoglobin
  - b) Myoglobin
  - c) Insulin
  - d) Myosin
3. Calcium deficiency in the body occurs in absence
  - a) Vitamin C
  - b) Vitamin D
  - c) Vitamin A
  - d) Vitamin E
4. Genetic Mutation occur in
  - a) Protein
  - b) RNA
  - c) DNA
  - d) Nucleus
5. Chromatin is composed of \_\_\_\_\_
  - a) Nucleic acids and protein
  - b) Nucleic acids only
  - c) Proteins only
  - d) None of these
6. Formation of Galactose 1-P from Galactose is catalyzed by
  - a) Hexokinase
  - b) Aldolase
  - c) Galactokinase
  - d) Galactose 1-P uridyl transferase
7. The main stores of glycogen are found in \_\_\_\_\_
  - a) Adipose tissues
  - b) Skeletal muscles
  - c) Brain
  - d) Erythrocytes
8. RNA required for the protein synthesis
  - a) mRNA
  - b) tRNA
  - c) rRNA
  - d) API of these
9. Transcription is the transfer of genetic information

- a) DNA to RNA      b) tRNA to mRNA      c) DNA to mRNA      d) mRNA to tRNA
- 10. The length of one turn of DNA is
  - a) 3.4 A°      b) 34 A°      c) 20 A°      d) 3.04 A°

Part - B

Attempt any five Questions.

- Q.2 Explain DNA, structure and functions. 12
- Q.3 What is structure and function of Carbohydrates. 12
- Q.4 What is colligative properties. 12
- Q.5 Write in detail the Enzyme regulation 12
- Q.6 Describe secondary, tertiary and quaternary structure of proteins. 12
- Q.7 Explain biochemistry of isozymes 12
- Q.8 What are the amino acids and their function 12