

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (OTT) (Sem.-1)

APPLIED BIOCHEMISTRY

Subject Code : BSOT-102-19

M.Code : 79114

Date of Examination : 12-01-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

1. Write briefly :

- What criteria are used to determine Liver Function Test?
- Write some uses of Radioisotopes in nuclear medicines.
- Discuss prostaglandins with example.
- What do you mean by peroxidation of fats?
- What are Aquaporins and their function?
- What does hematocrit level tell you?
- What is Creatinine Clearance Test?
- Write the steps of protein synthesis.
- Discuss the blotting techniques.
- What role does sodium play in metabolism?

SECTION-B

2. Give a detailed account of the Absorption and the biochemical role of Phosphorus.
3. Diagrammatic representation and energetic of Krebs-Henseleit cycle.
4. Describe Vitamins and their significant role.
5. Short note on structural organization of proteins (primary, secondary, tertiary, and quaternary structure).
6. Enzyme Catalysis mechanism and Kinetics.

SECTION-C

7. Liver function test purpose, procedure, measured parameters. How its significant to diagnose hepatic dysfunction?
8. Discuss the nomenclature rules of compounds containing amino, cyanides, isocyanides, and amide as a functional group?
9. Diagrammatic representation of Beta oxidation of fatty acid, Evaluation of Energy expenditure during the oxidation of Palmitic acid.

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.