

Roll No.

Total No. of Pages : 02

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

BIOCHEMISTRY AND METABOLISM

Subject Code : BSBT-103-18

M.Code : 75326

Date of Examination : 12-01-23

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. Answer briefly :
- a) Homopolysaccharides
 - b) Gangliosides
 - c) Fibrous and Globular proteins
 - d) Active site
 - e) Oxidative phosphorylation
 - f) Transition state
 - g) Essential amino acids
 - h) Nucleoside and Nucleotides
 - i) Apoenzyme
 - j) Cis and Trans fatty acids

SECTION-B

2. List general properties of Monosaccharides.
3. Write a note on structure and function of Phospholipids.
4. How are Enzymes classified?
5. What is Electron Transport chain? Discuss briefly.
6. Write a note on biological functions of Glycoproteins.

SECTION-C

7. Elaborate on levels of structural organization of Proteins.
8. What is β -Oxidation ? Discuss significance and steps involved.
9. Discuss pathway of TCA 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.