

Roll No. 

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 02

Total No. of Questions : 09

**B.Sc.(BT) (2018 & Onwards) (Sem.-1)**  
**BIOCHEMISTRY AND METABOLISM**  
Subject Code : BSBT-103-18  
M.Code : 75326

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. Define the term Biochemistry.
- b. What are polysaccharides?
- c. Give two examples of disaccharides.
- d. Write functions of phospholipids?
- e. Define Nucleotide.
- f. What is meant by apoenzymes?
- g. Define Active site of enzymes.
- h. Define Glycolysis.
- i. Explain in brief glycogenolysis.
- j. Write functions of cerebrocides.

### SECTION-B

2. Give a brief account on protein structure and classification.
3. Write a detailed note on structure, classification and functions of lipids.
4. Explain in detail activation energy .
5. Give detailed account on structure and function of DNA.
6. Write a note on sphingolipids and gangliosides.

### SECTION-C

7. Give a detailed account on TCA cycle.
8. Describe structure, functions and properties of monosaccharides.
9. Discuss  $\beta$ -oxidation of fatty acids in detail.

**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.**