

Q.P. Code: MBB103**M.B.B.S. [1st Prof.]**

BF/2021/06

Biochemistry – A

M.M. : 50

Time : 3 Hours

- Note: 1. Attempt all questions. Illustrate your answer with suitable diagrams.
2. ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.
3. **NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/PROVIDED**
4. **The student must write Q.P. Code in the space provided on the Title page of the Answer Book.**

PART - I

1. **Write short notes:**
- a. Zwitter ions and Isoelectric pH [3]
 - b. Structure of immunoglobins [3]
 - c. Glycolipids [3]
2. **Discuss briefly:**
- a. Essential Fatty Acid (EFA) [3]
 - b. Transamination and role of SGOT/SGPT liver disease [3]
 - c. Km value of enzymes [2]
3. **Explain by giving biochemical justification:**
- a. Porphyrins causes skin manifestations [3]
 - b. Vitamin C deficiency causes scurvy disease [3]
 - c. Cytochrome P450 system is double edge sword [2]

PART - II

4. **Describe in detail:-**
- a. Blood parameters in uncontrolled diabetes mellitus type-II [3]
 - b. Biological importance of biotin vitamin [3]
 - c. Adipose tissue is an endocrine organ [3]
5. **Discuss briefly:-**
- a. Importance of endoplasmic reticulum and golgi bodies [2]
 - b. Inhibitors of enzyme [3]
 - c. S-Adenosyl Methionine (SAM) [3]
6. **Compare and contrast the following:-**
- a. Glycolipid and sphingolipid [3]
 - b. Heparin and Heparan So4 [3]
 - c. Lipoproteins and apolipoproteins [2]
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