

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

BF/2016/11

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. Energy yield by complete oxidation of palmitic acid. [3]
 - b. HMP shunt and its significance. [3]
 - c. Biochemical roles of vitamin B₁₂. [3]
2. **Answer briefly:**
 - a. Glycated haemoglobin and its clinical utility. [2]
 - b. Factors affecting enzyme activity. [3]
 - c. Urea cycle. [3]
3. **Compare and contrast the following:**
 - a. Primary, secondary and tertiary structures of proteins. [3]
 - b. Cofactor, coenzyme and prosthetic group. [3]
 - c. Reducing and non-reducing sugars. [2]

PART – II

4. **Describe in detail:-**
 - a. Ketogenesis and its regulation. [3]
 - b. Biochemical roles of vitamin A in vision. [3]
 - c. Diagnostic enzymes in myocardial infarction. [3]
 5. **Write in brief:**
 - a. Glycogen storage diseases. [3]
 - b. Inhibitors of electron transport chain. [2]
 - c. Role of vitamin A, C and E in handling oxidative stress. [3]
 6. **Write notes on:-**
 - a. Isomers, epimers and anomers. [3]
 - b. Role of phospholipids as membrane components. [3]
 - c. Transamination. [2]
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