

M.B.B.S. [1st Prof.]

BF/2009/07

Biochemistry – A

M.M. : 50

Time : 3 Hours

Note : Attempt all questions.

USE SEPARATE ANSWER SHEET FOR EACH PART.

PART - I

1. **Write briefly:**
 - a. What is Dextrose? Mention its clinical uses. [2]
 - b. What is Glycemic Index? Mention its importance. [2]
 - c. What are the Ketone bodies. Mention the beneficial and bad effects of Ketone body. [2]
 - d. What is the rate limiting step of Cholesterol biosynthesis. Mention one Cholesterol lowering drug with its mode of action. [2]

2. **Discuss about:**
 - a. Glycogenolysis. [4]
 - b. Lipid metabolism in adipose tissue. [4]

3. **Write short notes on:**
 - a. Vitamin K. [3]
 - b. Chronic alcoholism. [3]
 - c. Oxidative Phosphorylation. [3]

PART – II

4. **Write briefly:**
 - a. Structure of Immunoglobulin. [2]
 - b. Haemoglobin as buffer. [2]
 - c. LDL receptor. [2]
 - d. Oxidative deamination. [2]

 5. **Discuss about:**
 - a. Role of liver in lipid transport and metabolism. [4]
 - b. Synthesis of specialized products from amino acids. [4]

 6. **Write short notes on:**
 - a. Isoenzymes. [3]
 - b. Essential fatty acids. [3]
 - c. Phenylketonuria. [3]
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