

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

BF/2008/07

Biochemistry – A

M.M. : 50

Time : 3 Hours

Note : Attempt all questions.

USE SEPARATE ANSWER SHEET FOR EACH PART.

Part - I

1. **Write briefly about:**
 - a. Role of Vitamin E as anti-oxidant. [2]
 - b. Regulation of cholesterol biosynthesis. [2]
 - c. Competitive inhibition of enzyme activity. [2]
 - d. Biochemical defect and consequences of Galactosaemia. [2]

2. **Answer briefly:**
 - a. Role of folic acid in one carbon metabolism. [4]
 - b. Pathogenesis of fatty liver. [4]

3. **Write short notes on:**
 - a. Role of isoenzymes in clinical diagnosis. [3]
 - b. Reciprocal regulation of Glycogenesis and Glycogenolysis. [3]
 - c. Role of hemoglobin as buffer. [3]

Part – II

4. **Explain briefly:**
 - a. Structure of elastin. [3]
 - b. Secondary structure of proteins. [3]
 - c. Role of Glycine in body. [3]

 5.
 - a. Discuss biochemical role of Methionine and inborn errors associated with it. [4]
 - b. Explain role of HDL in reverse Cholesterol transport. [4]

 6. Define Gluconeogenesis. Outline steps involved in this pathway and add a note on regulation of Gluconeogenesis. [8]
-