

**M.B.B.S. [1<sup>st</sup> Prof.]**

BF/2014/10

**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. Outline HMP shunt pathway. Discuss its biochemical importance. [3]
- b. Discuss regulation of glycogenesis & glycogenolysis. [3]
- c. Lactose intolerance. [2]

**2. Discuss:-**

- a. Oxidation of fatty acids. [3]
- b. Transport & metabolism of exogenous lipids. [3]
- c. Fatty liver. [3]

**3. Write briefly on:-**

- a. Catabolism including synthesis of specialized products of tryptophan. [3]
- b. Active methionine. [3]
- c. Role of glutamine. [2]

**PART – II****4. Write briefly:-**

- a. Biochemical actions of vitamin C. [3]
- b. Role of vitamin D in calcium homeostasis. [3]
- c. Deficiency/Diseases related to vitamin B. [3]

**5. Discuss:-**

- a. Deamination, transamination of amino acids. [3]
- b. Role of liposomes. [2]
- c. Classification of enzymes with examples. [3]

**6. Write notes on:-**

- a. Glycerophosphate & malate shuttles. [3]
- b. Oxidative phosphorylation. [3]
- c. Ribozymes. [2]

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