

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

BF/2015/7

**Biochemistry – A**

M.M. : 50

Time : 3 Hours

Note : Attempt all questions.

**USE SEPARATE ANSWER SHEET FOR EACH PART.**

**PART - I**

1. **Write short notes:**

- a. Transport of ammonia. [3]
- b. Metabolism of creatinine. [3]
- c. Regulation of glycogenesis & glycogenolysis. [3]

2. **Answer briefly:-**

- a. Lipotropic factors and fatty liver. [3]
- b. Biochemical actions of vitamin K and related deficiency disorders. [2]
- c. Lactose intolerance. [3]

3. **Explain:-**

- a. Outline HMP shunt pathway. [3]
- b. Enzyme inhibition. [3]
- c. Alkaptonuria. [2]

**PART - II**

4. **Describe in detail:-**

- a. De novo synthesis of fatty acids & its regulation. [3]
- b. Visual cycle. [3]
- c. Components of Electron transport chain. [3]

5. **Write in brief:-**

- a. Metabolic changes in long standing diabetes mellitus. [3]
- b. Omega 3 fatty acids in diet. [3]
- c. Substrate level phosphorylation. [2]

6. **Write notes on:-**

- a. Structure & functions of IgG & IgM. [3]
- b. Specialized products of glycine. [3]
- c. Biologically active peptides. [2]

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