

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

BF/2008/11

## 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. Biochemical role of Vitamin-D. [2]
  - b. Co-enzyme function of Niacin. [2]
  - c. High energy compounds. [2]
  - d. Structure of Immunoglobuline. [2]
2. **Discuss:**
  - a. Ketogenesis & Ketosis. [4]
  - b. Outline Fatty acid synthesis with regulation. [4]
3. **Write short notes on:**
  - a. Apoproteins and their importance. [3]
  - b. Biomedical importance of essential fatty acids. [3]
  - c. Importance of Glucose tolerance test. [3]

### Part – II

4. **Give brief account of:**
    - a. Biochemical defect & consequences in Phenylketonuria. [3]
    - b. Transamination reactions. [3]
    - c. Oxygen dissociation curves of haemoglobin and myoglobin. [3]
  5. **Discuss:**
    - a. Outline Krebs's cycle. Give its regulation. [4]
    - b. Formation of specialized products from Glycine. [4]
  6. **Write short notes on:**
    - a. Importance of HMP shunt. [2]
    - b. Role of Glutathione. [3]
    - c. Glycogen storage diseases. [3]
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