

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

BF/2015/11

Biochemistry – B

M.M. : 50

Time : 3 Hours

Note : Attempt all questions.

USE SEPARATE ANSWER SHEET FOR EACH PART.**PART - I****1. Discuss:-**

- a. Buffer systems in blood and explain their role. [3]
- b. Vasopressin and water balance. [2]
- c. PCR. [3]

2. Discuss:-

- a. Liver function tests with special reference to pigments and enzymes. [5]
- b. Biochemical picture in metabolic acidosis. [3]

3. Write briefly on:-

- a. DNA repair mechanisms. [3]
- b. Restriction enzymes. [3]
- c. Role of motifs in regulation of gene expression. [3]

PART – II**4. Discuss:**

- a. Initiation of eukaryotic protein synthesis. Also discuss action of antibiotics. [4]
- b. Metabolism of iron and its disorders. [3]
- c. Biochemical role of zinc, selenium & magnesium. [2]

5. Write briefly on:-

- a. Role of cytochrome P₄₅₀ in metabolism of xenobiotics. [3]
- b. Vectors and probes. [2]
- c. Wilson's disease. [2]

6. Write short notes on:-

- a. Clearance tests. [3]
- b. Regulation of calcium and phosphorus metabolism. [3]
- c. HPLC. [3]