

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

BF/2015/7

Biochemistry – B

M.M. : 50

Time : 3 Hours

Note : Attempt all questions.

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

- a. Eukaryotic basal transcription complex formation. Also discuss post-transcriptional modifications. [4]
- b. Role of copper and fluorine in health and disease. [3]
- c. Absorption and storage of iron. [2]

2. Write short notes on:-

- a. Hormones in regulation of water balance. [3]
- b. DNA polymerases. [2]
- c. Thyroid function tests. [2]

3. Write briefly on:-

- a. Therapeutic uses of radioisotopes. [3]
- b. Electrophoresis with special reference to serum electrophoresis. [3]
- c. Respiratory acidosis. [3]

PART – II**4. Discuss:**

- a. Purine degradation and metabolic disorders associated with it. [4]
- b. Enzymes of importance in recombinant DNA technology. [2]
- c. Lac operon. [2]

5. Discuss:-

- a. Bacteriophage lambda operon in gene expression. [3]
- b. Post-translational modifications. [2]
- c. Nucleosome assembly. [3]

6. Write short notes on:-

- a. Blotting techniques. [4]
- b. Helix turn helix motif. [2]
- c. tRNA. [3]