

Q.P. Code: MBB104**M.B.B.S. [1st Prof.]**

BF/2021/06

Biochemistry – B

M.M. : 50

Time : 3 Hours

- Note: 1. Attempt all questions. Illustrate your answers with suitable diagrams.
2. ATTEMPT BOTH PARTS IN SINGLE ANSWER BOOK ONLY.
3. **NO SUPPLEMENTARY SHEET SHALL BE ALLOWED/PROVIDED**
4. **The student must write Q.P. Code in the space provided on the Title page of the Answer Book.**

PART - I

1. **Discuss:-**
- a. Post transcriptional modifications of mRNA [3]
 - b. Biochemical basis of action of anti-thyroid drugs [3]
 - c. Enzymes of eukaryotic replication [3]
2. **Write briefly on:-**
- a. Tumor suppressor genes [3]
 - b. Biochemical functions of vitamin C [3]
 - c. Cell cycle [3]
3. **Write short notes on:-**
- a. Apoptosis [3]
 - b. Hemochromatosis [2]
 - c. Folate trap [2]

PART - II

4. **Discuss:-**
- a. Telomerase and its therapeutic importance [3]
 - b. Primary and secondary immune response [3]
 - c. Renal function tests [3]
5. **Write briefly on:**
- a. Principle and application of Electrophoresis [3]
 - b. Structure and mechanism of action of insulin receptor [3]
 - c. Causes and compensation in metabolic acidosis [3]
6. **Write short notes on:**
- a. Cushing's syndrome [3]
 - b. cDNA library [2]
 - c. BMR [2]
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