

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

BF/2016/11

Biochemistry – B

M.M. : 50

Time : 3 Hours

- Note:
1. Attempt all questions. Illustrate your answer 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. How Retroviruses are useful in gene therapy. [4]
 - b. Wobble Hypothesis [3]
 - c. Proto-oncogenes. How they are activated. [2]
2. **Write short notes on:-**
 - a. H ion secretion by kidney. [3]
 - b. Gene and genome. [2]
 - c. Biologically important nucleotides. [2]
3. **Write briefly on:-**
 - a. Histone. [3]
 - b. Thin layer chromatography. [3]
 - c. PAGE. [3]

PART – II

4. **Discuss:**
 - a. Recombinant DNA technology. [4]
 - b. Gene therapy. [2]
 - c. Immunoelectrophoresis. [2]
5. **Discuss:-**
 - a. Liver function test. [3]
 - b. Importance of magnesium. [2]
 - c. DNA organization in cell. [3]
6. **Discuss:-**
 - a. DNA mutations with example. [4]
 - b. Zinc finger motif. [2]
 - c. Hyperuricemia. [3]