Roll No. | | | | | | | | | | | | **Total No. of Pages : 02**

Total No. of Questions : 13

B.Pharmacy (Sem.-6)

PHARMACEUTICAL BIOTECHNOLOGY-THEORY

Subject Code : BP605T

M.Code : 77990

Date of Examination : 11-01-23

Time : 3 Hrs. **Max. Marks : 75**

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.**
3. **SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.**

SECTION-A

1. Write briefly :

a. Applications of rDNA technology

b. Enzyme immobilization

c. Hypersensitivity reactions

d. Toxoids

e. Transposons

f. Role of aerator in fermentation

g. Dried plasma

h. Microbial biotransformation

i. Antigen

j. Immunization.

SECTION-B

2. Write a descriptive note on structure and functions of MHC.

3. Discuss in detail the applications of genetic engineering in the production of hepatitis C vaccine and hormones.

4. Write an explanatory note on variables that need to be controlled in a fermentation process.

SECTION-C

5. Illustrate the map of cloning vector.

6. Describe the applications of enzyme immobilization.

7. Differentiate between cell mediated and humoral immunity.

8. Write a note on the storage conditions of vaccines.

9. Differentiate between western blotting and Southern blotting.

10. Write a brief note on PCR.

11. Explain point mutations.

12. Describe the process of protein engineering.

13. Describe the production of bacterial vaccines.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.