

QP Code: 625006

Reg. No.....

**Sixth Semester B. Pharm Degree Regular/Supplementary
Examinations February 2024
Pharmaceutical Biotechnology
(2017 Scheme)**

Time: 3 Hours

Max. Marks: 75

- Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together • Leave sufficient space between answers
- Draw diagrams wherever necessary

Essays

(2x10=20)

1. Explain the types of enzyme immobilization add a note on preparation of amylase.
2. Explain the production of insulin by rDNA technology.

Short Notes

(7x5=35)

3. Define MHC. (Major Histocompatibility Complex) Explain its structure and functions.
4. Outline the general storage and stability conditions for official vaccines. Give the storage conditions for two official vaccines
5. Explain types of ELISA.
6. Write a note on production of penicillin.
7. Write in details about southern blotting techniques.
8. Define mutation and explain its types.
9. Give difference between active and passive immunity.

Answer Briefly

(10x2=20)

10. Protease
11. Application of genetic engineering in medicine.
12. Short note on cellular immunity.
13. Define microbial biotransformation.
14. Plasma substitutes.
15. Applications of hybridoma technology.
16. Immune suppression.
17. Transposons.
18. Name any two microorganisms used for production of vitamin B₁₂ by fermentation.
19. Write a note on storage of whole human blood.
