

QP Code: 625006

Reg. No.....

**Sixth Semester B. Pharm Degree Regular/Supplementary
Examinations May 2022
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. Discuss in detail about production of Monoclonal antibodies by hybridoma technology
2. Write about fermentative production and purification of penicillins.

Short Notes

(7x5=35)

3. Write in detail about PCR technique
4. Explain in brief about structure and parts of a fermenter with the help of a diagram
5. Explain the production of insulin hormone by rDNA technology
6. With the help of neat labelled diagram explain about structure of immunoglobulins and its classification
7. Explain the general method of preparation of any one viral vaccine with examples
8. Write in detail about gene transfer mechanism by transduction
9. Differentiate between humoral and cell mediated immunity with examples

Answer Briefly

(10x2=20)

10. Plasmids
11. Conjugation
12. Southern blotting
13. Any one Toxoid
14. Define biotechnology. Mention any two applications in pharmaceutical sciences
15. Dried plasma
16. Define microbial biotransformations.
17. Genetic engineering
18. Storage condition of any two bacterial vaccines.
19. Biosensors
