

2012 Scheme

Q P CODE: 311006

Reg. No:

Third Year B.Pharm Degree Supplementary Examinations August 2021

Pharmaceutics III

(Pharmaceutical Microbiology and Biotechnology)

Time: 3 Hours

Total Marks: 100

- *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*
- *Write chemical structures/equations wherever necessary.*

Essays

(3x10=30)

1. Discuss sterilization by filtration with suitable examples
2. Describe the lytic cycle of a bacteriophage with a neat diagram
3. Discuss the production of penicillin by fermentation

Short notes

(14x5=70)

4. Enlist techniques for immobilization of enzymes.
5. Formation of bacterial spore
6. Explain the applications of monoclonal antibodies
7. Explain the cultivation of virus
8. Explain immunological tolerance with suitable example
9. Explain the importance of sterilization indicators
10. Discuss two methods for maintenance of pure culture
11. Explain any two applications of gene cloning
12. Enlist factors influencing rate of mutation
13. Explain principle involved in microbiological assay
14. Define sterility testing and methods used for sterility testing
15. Enlist factors affecting disinfectants
16. Explain transformation and transduction
17. Standardization process of vaccines
