

Third Year B.Pharm Degree Supplementary Examinations July 2018
Pharmaceutics IV
(Pharmaceutical Microbiology and Biotechnology)
(2010 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw diagram wherever necessary.

Essays

(3x10=30)

1. Explain the sterility testing of pharmaceutical products
2. Describe different culture media along with examples
3. Explain microbial assay of antibiotics

Short notes

(14x5=70)

4. Brief description of production of monoclonal antibodies
5. Scope of microbiology in pharmaceuticals
6. Structure of bacterial cell with neat labelled diagram
7. Gram staining
8. Morphology and reproduction of fungi
9. Transduction
10. Immunological tolerance
11. Factors influencing disinfectants
12. Brief description of different sterilization methods
13. Types of fermentation
14. Any one technique used for immobilization of enzymes
15. Biotransformation process
16. ELISA
17. Cultivation of virus
