

QP CODE: 301006 (old scheme)

Reg.No:

Third Year B.Pharm Degree Supplementary Examinations - July 2016

PHARMACEUTICS IV
(Pharmaceutical Microbiology and Biotechnology)
(2010 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw diagram wherever necessary.

Essay

(3x10=30)

1. Explain various methods used for the isolation of pure culture
2. Describe the sterility testing of pharmaceutical products as per I.P.
3. Explain various steps involved in the fermentation of penicillin

Short notes

(14x5=70)

4. Design of an ideal fermenter with neat labelled diagram
5. Reproduction of fungi
6. Explain the production of diphtheria antitoxin
7. Write a note on different classes of immunoglobulins.
8. Viral replication
9. Differentiate between active and passive immunity
10. Production of small pox vaccine
11. Moist heat sterilization
12. Bacterial flagella and capsule
13. List out various techniques used for enzyme immobilization and explain about any two methods.
14. Structure of bacteriophage
15. Diphtheria toxoid
16. Bacterial nutrition
17. Microbial resistance
