

Third Year B.Pharm Degree Supplementary Examinations - August 2015

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. Discuss the bacterial staining in detail. Add a note on acid fast staining.
2. Discuss the preparation and applications of monoclonal antibodies.
3. Discuss the fermentative production of alcohol.

Short notes

(14x5=70)

4. Bacterial reproduction
5. Radiation sterilization
6. Types of antigen antibody reactions
7. Validation of sterilization process
8. Fungi of pharmaceutical importance
9. Fermentor and its parts
10. Evaluation of disinfectants
11. Examples of microbiological transformation
12. Advantages of enzyme immobilization
13. Bacterial taxonomy
14. Structure of virus
15. Protoplast fusion
16. Applications of gene cloning
17. Isolation of pure culture
