

Third Year B.Pharm Degree Supplementary Examinations - August 2014

PHARMACEUTICS IV
(Pharmaceutical Microbiology and Biotechnology)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw suitable diagrams wherever necessary

Essay

(3x10=30)

1. Explain the structure of a bacterial cell in detail
2. Describe aerobic and anaerobic methods of cultivation of bacteria
3. Explain thermal methods of sterilization in detail

Short notes

(14x5=70)

4. Bacterial growth curve
5. Neutralization reaction
6. Protoplast fusion
7. Production of cortisones from progesterones by microbial transformation
8. Classify immunity
9. Cloning vectors
10. Ideal disinfectant
11. Microbial assay of antibiotics by diffusion
12. Electron microscopy
13. Poliomyelitis vaccine
14. Staining methods for identification of bacteria
15. Fermentatory production of vitamin B₁₂
16. Complement fixation test
17. Bacterial count
