

Third Year B.Pharm Degree Examinations - November 2013

PHARMACEUTICS IV
(Pharmaceutical Microbiology and Biotechnology)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw diagrams wherever necessary

Essay

(3x10=30)

1. Describe hybridoma technology for the production of monoclonal antibody
2. Explain viral replication
3. Explain Rideal-Walker coefficient test for the evaluation of disinfectants

Short notes

(14x5=70)

4. Classification of culture media
5. Gram staining
6. Gene transfer methods
7. Bacterial flagella
8. Preparation of tetanus toxoid
9. Validation of sterilization methods
10. Industrially important micro organisms
11. Bacterial nutrition
12. Design of fermenter
13. Immunoglobulins
14. Immunofluorescence
15. Mutation
16. Sterility testing of small volume parenterals
17. Production of alcohol by fermentation
