QP CODE: 301006 (old scheme)

Reg. No:

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

Time: 3 Hours

Total Marks: 100

(3x10=30)

(14x5=70)

- Answer all Questions.
- Draw diagram wherever necessary.

Essay

- 1. Briefly explain different methods of sterilization
- 2. Discuss about different techniques of immobilization of enzymes
- 3. Explain the structure of bacterial cell with the help of a neat labelled diagram

Short notes

- 4. Scope of microbiology in pharmaceutical sciences
- 5. Classification of microbes
- 6. Classification of culture media with examples
- 7. Bacteriophages
- 8. Medical and pharmaceutical importance of fungi
- 9. Transformation
- 10. Applications of gene cloning
- 11. Standardization of immunological products
- 12. Brief description on vaccines and sera
- 13. Hybridoma technology in the production of monoclonal antibodies
- 14. Evaluation of disinfectants
- 15. Hypersensitivity
- 16. Microbial assay of antibiotics
- 17. Fermenter design
