QP CODE:301006

Reg.No:

Third Year B.Pharm Degree Supplementary Examinations - March 2015

PHARMACEUTICS IV

(Pharmaceutical Microbiology and Biotechnology)

Time: 3 Hours

- Answer all Questions.
- Draw diagram wherever necessary.

Essay

- 1. Discuss the various types of immunity with examples.
- 2. Discuss the morphology of a bacterial cell with a neat labeled diagram.
- 3. Discuss the fermentative production of any one antibiotic.

Short notes

- 4. Bacteriophages
- 5. Gaseous sterilization
- 6. Nutrient media and its applications
- 7. Sterility testing
- 8. Fungal reproduction
- 9. Screening of industrially important microbes
- 10. Phenol coefficient tests
- 11. Applications of microbial transformation
- 12. Methods of enzyme immobilization
- 13. Methods of downstream processing of fermentation products
- 14. Official methods of antibiotic assay
- 15. Applications of antigen antibody reactions
- 16. Factors affecting disinfection
- 17. Cultivation of virus

Total Marks: 100

(3x10=30)

(14x5=70)