

QP CODE:301006(old scheme)

Reg.No:

Third Year B.Pharm Degree Supplementary Examinations - January 2016

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 rDNA technology in detail.
2. Discuss bacterial growth curve with help of a neat diagram.
3. Discuss the fermentative production of penicillin.

Short notes

(14x5=70)

4. Bacterial spores
5. Filtration sterilization
6. Types of nutrient media
7. Sterility indicators
8. Cultivation of fungi
9. Types of microscopic techniques
10. Classification of disinfectants with examples and uses
11. Microbial transformation
12. Applications of enzyme immobilization
13. Biochemical identification of microbes
14. Mutation and its importance
15. Interferons
16. Microbiological assays
17. Viral vaccines
