

QP CODE:311006

Reg.No:

Third Year B.Pharm Degree Supplementary Examinations – January 2017

PHARMACEUTICS III
(Pharmaceutical Microbiology and Biotechnology)
(2012 Scheme)

Time: 3 Hours

Total Marks: 100

- Answer all Questions.
- Draw diagram wherever necessary.

Essay

(3x10=30)

1. Define fermentation. Discuss about production of penicillin by fermentation process
2. Explain about viral replication in detail.
3. Discuss about production of monoclonal antibodies using hybridoma technology

Short notes

(14x5=70)

4. Classification of culture media
5. Structure of bacteria
6. Sterility testing of pharmaceutical products
7. Standardization of vaccines
8. Structure of bacteriophage
9. Hypersensitivity reactions
10. Simple staining
11. Moist-heat sterilization
12. Isolation of pure culture
13. Structure of viruses
14. Reproduction of fungi
15. Dry heat sterilization
16. Microbial transformation
17. Coomb's test
