

QP CODE:311006

Reg.No:

Third Year B.Pharm Degree Supplementary Examinations - January 2016

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. Discuss about gram staining in detail.
2. Discuss about production of alcohol by fermentation process.
3. Explain about enzyme immobilization technique

Short notes

(14x5=70)

4. Hyper sensitivity reactions
5. Structure of bacteria.
6. Reproduction of fungi.
7. Classification of culture media.
8. Structure of bacteriophage.
9. Haptens
10. Structure of antibody.
11. Sterility testing of pharmaceutical products.
12. Moist-heat sterilization.
13. Active immunity and passive immunity.
14. Anaerobic culture method.
15. Classification of virus.
16. Standardization of vaccines.
17. Viral replication
