

QP CODE: 311006 (new scheme)

Reg.No:

**Third Year B.Pharm Degree Supplementary Examinations
January 2018
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 microscopic methods of bacterial identification highlighting staining method in detail.
2. Discuss in detail about hybridoma technology and its applications.
3. Discuss in detail the fermentative production of penicillin.

Short notes

(14x5=70)

4. Bacterial spores with examples
5. Dry heat sterilization
6. Principle of antigen antibody reactions
7. Sterility testing methods
8. Pharmaceutically important fungi with examples
9. Parts of a fermenter with uses
10. Disinfectant evaluation methods
11. Microbiological transformation- examples and uses
12. Compare various methods of enzyme immobilization
13. Taxonomy of bacteria
14. Virus-classification and structure in brief
15. Defense mechanisms of body against viruses
16. Gene cloning- basics and uses
17. Pure culture and its importance
