

QP CODE: 202326

Reg. No:

**Second Year Pharm D Degree Supplementary Examinations
December 2018**

Pharmaceutical Microbiology

Time: 3 Hours

Total Marks: 70

- Answer all Questions.
- Draw Diagrams wherever necessary.

Essays

(3x10=30)

1. Explain the symptoms, causative agent, pathology and treatment of tuberculosis.
2. Describe the method of microbiological assay of streptomycin and penicillin.
3. Explain in detail about the procedure of ELISA test.

Short notes

(8x5=40)

4. The method of treatment of HIV.
5. Describe the ultra-structure of bacteria with a neat labelled diagram.
6. The methods employed in the isolation of bacteria.
7. Explain any three antigen antibody reactions.
8. Explain the determination of phenol coefficient through Rideal Walker test.
9. Explain the sterilization by autoclaving.
10. Define gram staining and importance of negative staining
11. Enriched media and selective media.
