

QP CODE: 202326

Reg. No:

**Second Year Pharm D Degree Regular/Supplementary Examinations
October 2024**

Pharmaceutical Microbiology

Time: 3 Hours

Total Marks: 70

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays

(3x10=30)

1. Explain isolation of pure culture. Write the procedure, merits and demerits of preservation techniques.
2. With a neat labelled diagram explain the principle, procedure, applications and demerits of sterilization using autoclave.
3. Enlist different antigen-antibody reactions and mention their diagnostic applications.

Short notes

(8x5=40)

4. Mention the causative organism, mode of transmission, signs and symptoms, diagnosis and treatment of syphilis.
5. Explain the classification of bacteria on the basis of temperature, oxygen and pH requirements.
6. What are sterilization indicators. Mention indicators used for various sterilization methods.
7. Write principle, procedure and applications of ELISA test.
8. The method of treatment of HIV
9. Explain the microbial assay of Vitamin B2.
10. Enriched media and selective media
11. Write principle, procedure and applications of Western Blotting technique
