

QP CODE: 202326

Reg. No:

**Second Year Pharm D Degree Regular/Supplementary Examinations
October 2022**

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. Differentiate between gram-positive and gram-negative cell walls. Add a note on the principle and Procedure of Gram's staining technique.
2. Explain the principle, procedure, applications, and demerits of sterilization using an autoclave.
3. Explain the history and scope of microbiology.

Short notes

(8x5=40)

4. Explain principles involved in the microbiological assay of streptomycin
5. Write briefly about the general procedure for cell culture.
6. Describe any two methods of viability counting.
7. Differentiate between prokaryotes and Eukaryotes.
8. Explain on the cultivation of the virus.
9. Write a short note on the general principle of natural immunity.
10. Explain the study of infectious diseases typhoid and malaria.
11. Western blot test.
