

QP CODE: 202326

Reg. No:

**Second Year Pharm D Degree Supplementary Examinations
August 2021**

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. Define Staining. Describe various staining techniques for identification of bacteria. (2+8)
2. Write the process involved in phagocytosis.
3. Explain the principle and procedure of physical method of sterilization and also list out its merits and demerits.

Short notes

(8x5=40)

4. Define disinfectants. Write about the factors affecting their activation and mechanism of action.
5. Differentiate active and passive immunity.
6. Antigen antibody reactions.
7. Describe on nutritional requirements for the growth of microorganism.
8. Mention the causative organism, mode of transmission, signs and symptoms, diagnosis and treatment of tuberculosis.
9. Explain Schick's Test.
10. How the microbiological assay of vitamin B₁₂ works.
11. Explain the method of treatment of malaria.
