

**Second Year Pharm D Degree Supplementary Examinations  
April 2025**

**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. Classify bacteria on the basis of morphological features. Add a note on composition and functions of bacterial cell.
2. Explain the principle, procedure, applications and demerits of sterilization using hot air oven.
3. Define sterility test and explain different methods of sterility tests

**Short notes**

**(8x5=40)**

4. General principle of acquired immunity.
5. Microbial assay of Penicillin.
6. Explain the study of infectious diseases Cholera and Hepatitis.
7. Describe any two methods of total counting.
8. Southern blot test.
9. Explain about moist heat sterilization.
10. Explain the classification of disinfectant.
11. Explain about the cultivation of fungi.

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