

QP Code: 323006

Reg. No.....

**Third Semester B. Pharm Degree Supplementary Examinations
September 2025
Pharmaceutical Microbiology
(2017 Scheme)**

Time: 3 Hours

Max. Marks: 75

- *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

(2x10=20)

1. Explain the ultra-structure of a bacterial cell with a neat diagram and explain its cellular components.
2. Define and classify disinfectants. Describe the various evaluation techniques of disinfectants.

Short Notes

(7x5=35)

3. Explain IMViC test.
4. Describe the different sources of contamination in an aseptic area.
5. Write a note on principle and procedure of Grams staining.
6. Explain the principle involved in autoclave and its applications.
7. Briefly describe any two methods of isolation of pure cultures.
8. Write a note on sterility testing of liquid products.
9. Application of cell culture in pharmaceutical industry and research.

Answer Briefly

(10x2=20)

10. Define culture medium.
11. Explain the mechanism of action of UV radiation.
12. Differentiate prokaryotes and eukaryotes.
13. Define clean area.
14. Different kinds of electron microscopes.
15. Define plasmid and its use.
16. Structure of enveloped virus.
17. What is D value.
18. Preservation of pharmaceutical products.
19. What is viable count.
