

QP Code: 323006

Reg. No.....

**Third Semester B. Pharm Degree Regular/Supplementary  
Examinations August 2023**

**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. Describe Rideal Walker test for disinfectant evaluation
2. Discuss two methods for isolation of pure cultures

**Short Notes**

**(7x5=35)**

3. Applications of cell culture technique
4. Evaluation of preservatives in pharmaceutical preparations
5. Explain bacterial growth curve.
6. Differentiate differential and selective media with examples
7. Methods for preservation of pure cultures
8. Differentiate gram positive and gram negative cell wall
9. Construction, principle, working and applications of hot air oven

**Answer Briefly**

**(10x2=20)**

10. Koch postulates
11. Spontaneous generation and biogenesis
12. Anaerobic media with an example
13. Suggest two methods each to determine viable count and total count of bacteria
14. Two examples each for anaerobes and aerobes
15. Differentiate bacteriostatic and bactericidal agents
16. Four examples for chemical indicators of sterilization
17. Types of microbiological assays
18. Two methods for virus cultivation
19. Evaluation of microbial stability of pharmaceutical formulations

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