

QP Code: 323006

Reg. No.....

**Third Semester B. Pharm Degree Supplementary Examinations  
December 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. Discuss sterility testing methods
2. Classify sterilization methods. Describe principle, equipment and procedure of moist heat sterilization

**Short Notes**

**(7x5=35)**

3. Bacterial growth curve
4. With a neat labelled diagram, illustrate the morphology of a bacterial cell
5. Outline the requirements in an aseptic area
6. Explain types of cell cultures
7. Discuss factors affecting microbial spoilage of food and pharmaceuticals
8. Explain principle and procedure of Acid-fast staining
9. Explain IM Vic test

**Answer Briefly**

**(10x2=20)**

10. Four contributions of Louis Pasteur
11. Name the microbiologist credited for the following
  - Discovery of Penicillin
  - Discovery of microscope
12. Classify clean areas
13. Differentiate plasmid and capsid
14. Differential media with an example
15. Classify bacteria based on shape
16. Two fungal diseases
17. Examples for two spore forming bacteria
18. Examples of two gaseous sterilization agents
19. Functions of bacterial capsule

\*\*\*\*\*