

QP Code: 323006

Reg. No.....

**Third Semester B. Pharm Degree Regular/Supplementary
Examinations January 2020**

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. Enlist and describe the different methods for identification of bacteria.
2. Discuss the phenol coefficient methods used for evaluation of disinfectants

Short Notes

(7x5=35)

3. Sterility testing of pharmaceutical products
4. Cultivation of anaerobic bacteria
5. Quantitative measurement of bacterial growth
6. Cultivation of viruses
7. Microbial assay of antibiotics
8. Design of laminar flow equipment
9. Types of microbial spoilage for pharmaceutical products

Answer Briefly

(10x2=20)

10. Principle of dark field microscopy
11. Evaluation of microbial stability of pharmaceutical formulations
12. Pasteurization
13. Different types of fungal spores
14. Principle of animal cell culture
15. Cell wall composition of eukaryotes
16. Classification of clean areas
17. Differences between pili and fimbriae
18. Differences between antiseptics and disinfectants
19. Chemical indicators used in the evaluation of sterilization methods
