

QP Code: 323006

Reg. No.....

**Third Semester B. Pharm Degree Regular/Supplementary  
Examinations October 2022**

**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 the various methods exercised for the identification of bacteria.
2. Detail the methods of evaluation of disinfectants

**Short Notes**

**(7x5=35)**

3. Moist heat sterilization
4. Explain the culture media used in animal cell culture
5. Microbiological assay of growth factors
6. Explain the types of microbial spoilage for pharmaceutical products
7. Enumeration of bacteria
8. Physical factors affecting microbial growth
9. Factors affecting disinfection

**Answer Briefly**

**(10x2=20)**

10. Chemical monitors of sterilization
11. Differentiate bacteria and viruses
12. Principle of phase-contrast microscope
13. Capsule staining.
14. Applications of radiation sterilization
15. Clean area classification
16. Differentiate prokaryotes and eukaryotes
17. Lytic cycle of viral multiplication
18. IMViC biochemical tests
19. Biological indicators used in the validation of sterilization

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