

QP Code: 323006

Reg. No.....

**Third Semester B. Pharm Degree Regular/Supplementary  
Examinations October 2021**

**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. Detail the methods of preservation of microbial cultures. Write a note on the various components of a bacterial culture media.
2. Explain the various phases of growth curve of a batch culture.

**Short Notes**

**(7x5=35)**

3. Design and operation of laminar flow equipment
4. Microbiological assay of antibiotics
5. Design and operation of electron microscope
6. Explain briefly sterility tests performed on pharmaceutical products
7. Cultivation of virus
8. Determination of Rideal-Walker coefficient
9. Explain gaseous sterilisation

**Answer Briefly**

**(10x2=20)**

10. Principle of light microscopy
11. What are chemical indicators
12. Explain the procedure of ditch-plate method of disinfectant evaluation
13. Explain pasteurisation
14. Explain tyndallization
15. Transformed cell cultures
16. Functions of bacterial cell wall
17. Explain the mode of action of any two disinfectants
18. Classification of clean areas
19. Differentiate flagella and pili

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