

16370(J) J-16

B. Pharmacy 4th Semester Examination

Pharmaceutical Microbiology (NS)

BP-242

Time : 3 Hours

Max. Marks : 70

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

SECTION - A
(Attempt any two questions)

1. What is Bacterial Taxonomy? Explain Bergey's manual of systematic bacteriology. (10)
2. (a) What is pure culture technique? Discuss about plating method. (5)
(b) Define sterilization. Give detail about chemical processes of sterilization. (5)
3. What are hypersensitivity reactions? Discuss about Gell and Coomb's chart of classification. (10)

SECTION - B
(Attempt any eight questions)

4. What are disinfectants? Give phenol coefficient test for their evaluation.
5. What are Monoclonal Antibodies (MAbs). Give their applications.
6. How will you perform microbiological assay of Ca-pantothenate.
7. Give detail about the process of gene transfer.

8. Discuss about sterility testing for liquid products according to I.P. 1996.
9. Write a short note on Ag-Ab reactions.
10. What is staining? Give principle and procedure of gram staining.
11. Classify viruses. Describe cultivation of viruses in detail.
12. Give procedure for:
 - (a) Chick Martin Test.
 - (b) Kelsey-Sykes Test.
13. Write short note on:
 - (a) Defence mechanism of Body.
 - (b) Lytic and Lysogenic cycle. (8×5=40)

SECTION - C
(All questions are compulsory)

14. Differentiate cellular immunity vs Humoral immunity.
15. What do you understand by satellite viruses and oncogenic viruses?
16. What are various methods for describing MIC?
17. Classify Antibodies. Give structure of IgG.
18. What do you mean by generation time and eclipse period? (2×5=10)