

[Total No. of Questions - 18] [Total No. of Printed Pages - 2]
(2064)

14776

B. Pharmacy 4th Semester Examination

Pharmaceutical Microbiology (N.S.)

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

Answer any two questions:

1. What is sterilization? What are different methods of sterilization? Describe one method in detail. (10)
2. Discuss about the similarities and differences in the microbial assay of antibiotics and vitamins. (10)
3. Name several different staining techniques and describe them with their particular applications. (10)

SECTION - B

Answer any eight questions:

4. Differentiate between active and passive immunity. (5)
5. Describe the salient applications of electron microscopy and phase contrast microscopy. (5)
6. What are the nutritional requirements of bacteria? (5)
7. Differentiate between molds and yeast. (5)
8. Briefly explain about types of mutations in bacteria. (5)

14776/600

[P.T.O.]

9. Describe various techniques for the isolation of microorganisms in pure culture. (5)
10. Briefly explain lysogeny and transduction. (5)
11. Describe cylinder-plate method for assay of antibiotics. (5)
12. Compare the Chick-Martin and Kelsey-Sykes tests for the evaluation of disinfectants. (5)
13. Write short note on pharmaceutical importance of microbiology. (5)

SECTION - C

All questions are compulsory:

14. spores are used for validating radiation sterilization. (2)
15. Name two limitations of electron microscopy. (2)
16. Define mutagens and transposons. (2)
17. Write about haptens. (2)
18. What is the use of "Agar" in any culture medium? (2)