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B. Pharmacy 4th Semester Examination
Pharmaceutical Microbiology (O.S.)
HBP-204

Time: 3 Hours  Max. Marks: 80

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

Note: Attempt one question from Section A, B, C and D. Section E is compulsory.

SECTION - A

1. (a) Discuss the structure of the bacterial cell
(b) Write notes on Actinomycetes. (8+8=16)

2. How can you differentiate bacteria on the basis of the different staining techniques? Discuss with examples. (16)

SECTION - B

3. (a) How can you classify bacteria on the basis of their nutritional requirements?
(b) Write a note on bacterial genetics. (8+8=16)

4. Describe the various methods used for sterility testing of parenteral preparation. (16)

SECTION - C

5. Discuss the various methods for evaluation of liquid disinfectants. (16)

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6. Discuss in detail the various physical methods of sterilization with their applications and limitations. (16)

SECTION - D

7. What are microbiological assays? How will you carry out the microbial assay of chloramphenicol. (16)

8. What are antigens? Write a note on antigen-antibody response. (16)

SECTION - E

9. (i) Distinguish between active and passive immunity.

(ii) How will you sterilize the following articles.

(a) Glass petri plates

(b) Rubber gloves

(c) Surgical dressings

(d) Oily injections

(iii) How will you cultivate viruses and fungi?

(iv) Write notes on cilia and flagella (4×4=16)