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(2064)

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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)