

PY - 304

B.Pharm. III Semester
Examination, December 2012
Pharmaceutical Microbiology

Time : Three Hours

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Maximum Marks : 70

Note : 1. Attempt any five questions
2. All questions carry equal marks.

- 1) a) Define the term "Microbiology". Describe the contribution of scientist in the field of microbiology. (7)
b) How will you classify bacteria? Give examples. (7)
- 2) a) Explain the different types of staining techniques, Describing differential staining techniques in detail. (7)
b) Describe the structure and morphology of a typical bacteria. (7)
- 3) a) Define the term "Disinfection". Describe a method for the evaluation of disinfectant. (7)
b) What is "autoclaving"? Describe in detail the method of autoclaving. (7)

[2]

- 4) a) What do you mean by infection? Explain the factors influencing infection. (7)
b) Discuss sterility testing of pharmaceutical products. (7)
- 5) Write notes on any two : (7x2=14)
a) Cultivation and isolation of bacteria.
b) Dynamics of disinfection.
c) Validation of sterilization methods.
d) Microbial genetics and variation.
- 6) a) Describe the causative agents and mode of transmission of chicken-pox. (7)
b) Explain the causative agents and prevention of poliomyelitis. (7)
- 7) a) Describe the microbial assay of a broad spectrum antibiotics. (7)
b) Discuss food spoilage and preservation of food.
- 8) a) Describe sewage treatment methods in detail. (7)
b) Discuss various sterilization methods. (7)

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