

**FACULTY OF SCIENCE**

**M.Sc. II-Semester Examination, May / June 2015**

**Subject : MICROBIOLOGY**

**Paper : III**

**Antimicrobial Agents and Chemotherapy**

**Time : 3 hours**

**Max. Marks : 80**

**Note : Answer all questions from Part-A and Part-B. Each question carries 4 marks in Part-A and 12 marks in Part-B.**

**PART – A (8 x 4 = 32 Marks)  
(Short Answer Type)**

- 1 Disinfectants
- 2 Anti tubercular compounds
- 3 Detergents
- 4 Phenol Coefficient
- 5 Routes of drug administration
- 6 Drug resistance
- 7 Structure of Nystatin
- 8 Polymyxin

**PART – B (4 x 12 = 48 Marks)  
(Essay Answer Type)**

- 9 a) Explain selective toxicity and classify therapeutic antimicrobial agents.  
**OR**  
b) Describe plant derived products as therapeutic agents and how are they important.
- 10 a) What are bactericidal agents? Write on non-medical use of antibiotics.  
**OR**  
b) Write an account on methods of drug sensitivity testing and their importance.
- 11 a) Explain the biochemistry of drug resistance and control of drug resistant bacteria.  
**OR**  
b) What are antiviral agents and give an account of mode of action of interferon?
- 12 a) Write an account on bacterial cell-wall inhibitors and their mode of action.  
**OR**  
b) What are ribosomal inhibitors and their mode of action of one such drug you studied?

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