

FACULTY OF SCIENCE  
M. Sc. II – Semester Examination, May / June 2016

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 Antiseptics
- 2 Selective toxicity
- 3 Bacteriostatic
- 4 Dyes
- 5 Choice drug determination
- 6 Drug resistant bacteria
- 7 Structure of penicillin
- 8 MIC

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

9 (a) What are the chemical non-medical antimicrobials and explain their uses and mode of action?

OR

(b) What are the anti tubercular compounds and explain their mode of action?

10 (a) Explain the quantitative assay methods of anti microbial agents.

OR

(b) What are the factors that influences the bacteriostatic and bacteriocidal activity?

11 (a) What are the antiviral agents and explain their mode of action?

OR

(b) Explain the drug resistance in detail.

12 (a) Describe the structure, origin of polymyxin and discuss its mode of action.

OR

(b) Describe the structure, origin and mode of action of streptomycin.

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