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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