FACULTY OF SCIENCE
M.Sc. II - Semester Examination, April / May 2014
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. Paul Ehrlich
2. Antiseptic agent
3. Phenol coefficient
4. Non-medical anti microbial agents
5. Multi drug therapy
6. Selective toxicity
7. Membrane inhibitors
8. Anti fungal drugs

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

9. (a) What is chemotherapy and give the brief description of target sites of drug action?
   OR
   (b) What are the DNA synthesis inhibitors and describe their mode of action?

10. (a) Describe the Quantitative assay methods of anti microbial agents.
    OR
    (b) What are non-medicinal uses of antibiotics.

11. (a) What is drug resistance and explain the biochemistry of drug resistance?
    OR
    (b) What are Interferon’s? Write their mode of action.

12. (a) Give examples of translation inhibitors and describe the mechanism of action one such agent.
    OR
    (b) What are sulfa drugs? Write on the mode of action of one such drug.

* * * * *