

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.
