



Code No. : 9260

FACULTY OF SCIENCE
M.Sc. II Semester Examination, May/June 2012
MICROBIOLOGY
Paper – III : Antimicrobial Agents and Chemotherapy

Time : 3 Hours]

[Max. Marks : 80

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

PART – A (Short Answer Type)

(8×4=32 Marks)

1. Poul Ehrlich.
2. Sanitizers.
3. Agar tube assay.
4. Bacteriostatic agents.
5. Synergistic combination drugs.
6. Betalactamases.
7. Polymyxin.
8. Folic acid.

PART – B (Essay Answer Type)

(4×12=48 Marks)

9. a) Define antibiotic and explain different groups of antibiotics and their importance.
OR
b) Explain different synthetic medicinal agents and their application.
10. a) Describe different chemical non-medicinal antimicrobial agents for their mode of action and application.
OR
b) Explain different assay methods for growth inhibiting substances.
11. a) Explain the principles of chemotherapy.
OR
b) Describe the genetic and biochemical phenomenon of drug resistance.
12. a) Explain the mode of action of antifungal antibiotic.
OR
b) Describe the terminal biosynthetic steps of peptidoglycon and mode of action of Penicillin.