



Code No. : 618

FACULTY OF SCIENCE
M.Sc. II Semester Examination, April/May 2013
MICROBIOLOGY
Paper – III : Antimicrobial Agents and Chemotherapy

Time : 3 Hours]

[Max. Marks : 80

- Note :** 1) Answer *all* questions.
2) *Each* question carries 4 marks in Section A and 12 marks in Section B.

SECTION – A **(8×4=32 Marks)**
(Short Answer Type)

1. Chemotherapy
2. Antitubercular drugs
3. MIC
4. Gaseous chemosterilizers
5. Tests of drug sensitivity
6. R-plasmids
7. Aminoglycosidic antibiotics
8. Transpeptidase inhibitors

SECTION – B **(4×12=48 Marks)**
(Essay Answer Type)

9. a) Describe the different target sites of antimicrobial agents and explain the bacteriostatic and bactericidal activity.

OR

- b) Define antibiotics and describe the types of antibiotics of medicinal use.



10. a) Write an account on non-medicinal applications of antibiotics.

OR

b) Describe the different types of antimicrobial assays.

11. a) Define the drug resistance and explain the biochemical basis of drug resistance.

OR

b) What are chemical and biological antiviral agents and give the mode action of interferon ?

12. a) Describe briefly about bacterial cell wall inhibitors and their mechanism of action penicillin.

OR

b) What are ribosomal inhibitors and briefly explain the mode of action of streptomycin.