



Code No. : 626

FACULTY OF SCIENCE
M.Sc. II Semester Examination, April/May 2013
BIOCHEMISTRY
Paper – III : Microbiology

Time : 3 Hours]

[Max. Marks : 80

Note : Answer all questions.

PART – A

(8×4=32 Marks)

1. General features of Mycoplasma.
2. Chemical disinfectants.
3. Transposons.
4. T₄ structure.
5. Applications of phage display libraries.
6. Chemostat.
7. Enveloped viruses.
8. Haemagglutination assay.

PART – B

(4×12=48 Marks)

9. a) Write the principle behind different sterilizations methods.

OR

- b) Differentiate between viral, virusoids and prions.

10. a) Differentiate between F⁺, F' and Hfr plasmids. How conjugation is helpful in mapping the bacterial chromosome.

OR

- b) Outline various factors effecting the bacterial growth.

11. a) Regulation of λ phage lytic and lysogenic life cycles.

OR

- b) Give an account of various methods for purification of bacteriophages.

12. a) Write about structure and life cycle of adenoisms.

OR

- b) Outline role of animal cell culture in propagation of viruses.