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

Time : 3 Hours] [Max. Marks : 80

Note : Answer all questions.

PART – A (8x4=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.

PART – B (4x12=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
designating 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.

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