



Code No. : 070

FACULTY OF SCIENCE
M.Sc. I Semester Examination, November/December 2012
MICROBIOLOGY
Paper – II : (Virology)

Time : 3 Hours]

[Max. Marks : 80

Note : Answer all questions from Section A and B.

SECTION – A

(8×4=32 Marks)

Short answer type :

1. Detection of viruses
2. Structure of TMV
3. phi X174
4. Lambda phage
5. Phenotypic mixing
6. Adenovirus structure
7. Poxvirus structure
8. Interferon.

SECTION – B

(4×12=48 Marks)

Essay answer type :

9. a) Explain the criteria used in the classification of viruses.
OR
b) Discuss various methods used in cultivation of animal viruses.
10. a) Write the replication strategies of Lysogenic and lytic bacteriophages.
OR
b) Draw the ultra structure of T2 bacteriophage with labels and describe the functions of each.
11. a) Explain various steps involved in the recombination of phases.
OR
b) Write the replication of Adenovirus in detail.
12. a) Discuss the role of animal viruses on the host cell in relation to infection.
OR
b) Explain the tumorigenesis caused by DNA viruses in the animals.