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Code No. 3563

FACULTY OF SCIENCE
M.Sc. I – Semester Examination, December 2014

Subject: Microbiology
Paper – II: Virology

Time: 3 Hours

Max.Marks: 80

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

PART – A (8 x 4 = 32 Marks)
[Short Answer Type]

- 1 ICTV
- 2 Cell lines
- 3 Helical symmetry
- 4 Structure of Phi x174
- 5 Non-enveloped spike containing virus
- 6 T-antigen
- 7 Viral interference
- 8 RNA tumor viruses

PART – B (4 x 12 = 48 Marks)
[Essay Answer Type]

- 9 a) Explain various methods used in cultivation of animal viruses.
OR
b) Draw the structure of TMV and explain in detail.
- 10 a) Describe the replication of T2 phages.
OR
b) Write the replication of ds DNA viruses.
- 11 a) What is phenotypic mixing? Differentiate between phenotypic mixing and genomic masking in viruses.
OR
b) Explain the replication of animal viruses by taking POX VIRUS as an example
- 12 a) Discuss the CPE of various viruses infecting humans.
OR
b) What are interferons? Classify and write their role in viral infection.
