

12/12

Code No. 2071 / CORE

FACULTY OF SCIENCE

M.Sc. I-Semester Examination, January 2018

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 Mad cow disease
- 2 ELISA
- 3 Pararetroviruses
- 4 Lambda phage structure
- 5 Semi-conservative method of replication
- 6 Genomic masking
- 7 Caulimovirus
- 8 Anti-retro viral drugs

**PART - B (4 x 12 = 48 Marks)
(Essay Answer Type)**

- 9 a) Explain various molecular methods used in viral diagnostics.
OR
b) Discuss the role of metagenomics in viral characterization.
- 10 a) Differentiate lytic and lysogenic cycles of virus with examples.
OR
b) Explain the Baltimore strategies of viral replication.
- 11 a) Explain viral interference and interferors with detail.
OR
b) Discuss various strategies involved in recombination of Bacteriophages.
- 12 a) List out various viral cloning vectors and write their functions in detail.
OR
b) Explain viruses as therapeutic agents in detail with suitable examples.

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