B. Sc.(Biotech.)-III Year

# NS-3475

# B. Sc. (Biotechnology) Examination, May 2018

## Molecular Virology

(B-303)

(New)

Time: Three Hours)

[Maximum Marks: 75

Note: Attempt questions from all Sections as per instructions.

### Section-A

# (Very Short Answer Questions)

Attempt all the *five* questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words.

3×5=15

- 1. Viron.
- Gene silencing.
- 3. HIV.

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6.

4. ELISA.

Antiviral assay.

#### Section-B

### (Short Answer Questions)

Attempt any two questions out of the following three questions. Each question carries 7½ marks. Short answer is required not exceeding 200 words. 7½×2=15 Give a brief account of classification of animal virus.

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Genome organization of any plant virus and its application.

8. Give an account of important diseases caused by animal viruses.

### Section-C

## (Detailed Answer Questions)

Attempt any *three* questions out of the following five questions. Each question carries 15 marks. Answer is required in detail.

15×3=45

9. Explain in detail the replication of RNA viruses.

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- Discuss the supressors of RNA silencing encoded by plant viruses and their role in viral infection.
- 11. Write notes on the following:
  - (a) Role of electron microscopy in diagnosis of viral infection.
    - (b) ISEM.
- Explain in detail the serological method that is direct, indirect and sandwitch ELISA used for quantification of viruses.
- 13. Write notes on the following:
  - (a) Application of PCR
  - (b) Satellite virus.

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