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(20517)

Roll No.

B.Sc. (Bio-Tech.) -III Year

NS-3475

**B.Sc. Bio-Technology Examination,
May 2017**

Molecular Virology

(B-303)

(New)

Time : Three Hours

[Maximum Marks : 75

Section-A

Note : All questions are **compulsory**. Each question carries 3 marks. Short answer is required not exceeding 75 words.

3×5=15

1. Virion
2. ELISA
3. Application of PCR
4. HIV
5. Structure of any ssRNA virus.

P.T.O.

Section-B

Note : Attempt any **two** questions. Each question carries 7½ marks. Short answer is required not exceeding 200 words.

7½×2=15

6. Give a brief account of classification of animal virus.
7. Genome organisation of any plant virus and its replication.
8. Economic losses due to important plant viruses.

Section-C

Note : Attempt any **three** questions. Each question carries 15 marks. Details answer is required.

3×15=45

9. Give an account of important viral diseases in animals including type of disease, host, target tissue and mechanism of infection.

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10. Mention the structure and mechanism of "Hepatitis B" in detail.
11. Explain with the help of suitable diagram the serological methods i.e., direct, indirect and sandwich elisa used for quantification of viruses.
12. Discuss the suppressors of RNA silencing encoded by plant viruses and their role in viral infection.
13. Write notes on :
- (a) Herpes virus
 - (b) Role of electron microscopy in diagnosis of viral infections