

A (Printed Pages 3)
(20622) Roll No.
B.Sc. Bio.Tech.-III Yr.

NS-3475
B.Sc. Biotechnology Examination,
June-2022

MOLECULAR VIROLOGY

(B-303)

(B.Sc. Biotech.)

Time : Three Hours / [Maximum Marks : 75

Note : Attempt **all** the sections as per instructions.

Section-A

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

3×5=15

1. Virusoids.
2. Satellite Viruses
3. Antiviral assays

P.T.O.

4. Viral suppressors of gene silencing.
5. Name any two plant and two animal viruses.

Section-B

Note : Attempt any **two** questions. Each question carries **7½** marks. Short answer is required not exceeding **200** words. $2 \times 7\frac{1}{2} = 15$

6. Describe the salient feature of any animal virus and its replication.
7. Application of electron microscopy in viral infections.
8. Write notes on:
(a) ELISA
(b) ssRNA virus

Section-C

Note : Attempt any **three** questions. Each question carries **15** marks. Detailed answer is required. $3 \times 15 = 45$

9. Write an essay on economic losses due to viral diseases.

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10. Describe in detail genome organisation of DNA and RNA plant viruses and their replication.
11. Write notes on:
- (a) Tissue culture and growth of virus.
 - (b) PCR
12. Write notes on:
- (a) Immuno electrophoresis
 - (b) Insect vector transmission.
13. Describe in detail the classification of animal and plant viruses.

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