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(20721) Roll No. ....  
B.Sc. (Biotech.)-III Yr.

**NS-3475 (CV-II)**

**B.Sc. (Biotechnology) Examination,**

**June-2021**

**Molecular Virology**

**(B-303)**

**[B.Sc. (Bio-Tech.)]**

*Time : 1½ Hours ] [Maximum Marks : 75*

**Note :** Attempt questions from **all** Sections  
as per instructions.

**Section - A**

**(Very Short Answer Questions)**

**Note :** Attempt any **two** questions. Each  
question carries 7.5 marks. Very short  
answer is required not exceeding 75

**P.T.O.**

words.

2×7.5=15

1. VIRON .
2. ELISA
3. Insect Vector
4. Gene silencing
5. Antiviral assay

**Section - B**

**(Short Answer Questions)**

**Note :** Attempt any **one** question out of  
the following **three** questions. Each  
question carries 15 marks. Short  
answer is required not exceeding 200  
words. 1×15=15

6. Give a brief account of classification of  
animal viruses.

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7. Give an account of Viroids.
8. Give a brief account of structure of any plant virus read by you.

### **Section - C**

#### **.(Detailed Answer Questions)**

**Note :** Attempt any **two** questions out of the following **five** questions. Each question carries 22.5 marks. Answer is required in detail.  $2 \times 22.5 = 45$

9. What do you mean by PCR. Write about its applications.
10. Describe in detail genome organisation of animal viruses and replication of DNA viruses.
11. Describe the role of electron microscopy in diagnosis of viral infection.

12. Write an essay on economic loss due to viruses.

13. Write notes on :

- (a) Immunoelectrophoresis
- (b) ISEM