

(20518)

Roll No.

B. Sc. (Micro.)-I Year

3486

B. Sc. (Micro.) Examination, May 2018

Virology

(B-103)

Time : Three Hours]

[Maximum Marks : 50

Note : Answer any *Five* questions. All questions carry equal marks.

1. Describe the structure and function of capsid and envelopes in viruses. 10

2. Define viruses. Enumerate their general characteristics and discuss their chemical nature. 10

3. What are bacteriophages ? Who was the first to discover them ? Explain the fine structure of T₄ bacteriophage. 10

(2)

4. Describe the lytic cycle of DNA bacteriophages. 10

5. Write short notes on the following : 5+5

(a) Methods for culturing viruses

(b) Cyanophages.

6. Write short notes on the following : 5+5

(a) Human immunodeficiency virus

(b) Prions.

7. Describe the methods of transmission of viruses in plants. 10

8. Write in brief about the classification of viruses adopted by PGNV. 10

9. Write short notes on the following : 5+5

(a) Role of viruses in biotechnology

(b) Tobacco mosaic disease.

10. Give a brief account of type of viruses with emphasis on their morphology. 10