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(20517)

Roll No.

B.Sc. (Micro.) I Yr

3486

B.Sc. (Micro.) Examination, May 2017

VIROLOGY

(B-103)

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt any **five** questions. **All** questions carry equal marks.

1. What are bacteriophages? Describe in brief their structure and mode of replication. 10
2. Write short notes on any **two** : $5 \times 2 = 10$
 - (i) HIV
 - (ii) POX virus
 - (iii) Polio virus
3. What are viroids? Describe in details their structure, nature and importance. 10

P.T.O.

4. Write in brief on the following : $5 \times 2 = 10$

(i) Retrovirus

(ii) TMV

5. Write short notes on the following : $5 \times 2 = 10$

(i) Biological nature of viruses

(ii) Prions

6. Give a brief account of transmission of plant viruses. 10

7. Write brief notes on the following :

$5 \times 2 = 10$

(i) Nomenclature of viruses

(ii) General characters of virus

8. Discuss briefly the role of viruses as disease causing agent. 10

9. Write short notes on any **two** : $5 \times 2 = 10$

(i) T-odd phage

(ii) Dysogenic cycle

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(iii) Symptoms of virus infection in plants

10. Give a brief account of the following :

$5 \times 2 = 10$

(i) Replication of DNA viruses

(ii) Classification of viruses

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Roll No. R170935135026

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

Enve.
Capsid
Genetic
Enzymes

M13 MS2
T4 GL
78 N14

(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

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Roll No. R18093513000 *Clarke*

Total Questions : 10]

[Printed Pages : 2

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B.Sc. (Micro.) Ist Year Examination,
May-2019

VIROLOGY

(B-103)

[B.Sc. (Micro)]

Time : 3 Hrs.]

[M.M. : 50

Note :- Attempt any *five* questions. All questions carry equal marks.

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1. What are Viruses ? Give general characteristics of viruses. 10
2. Give a general account of structure of viruses. 10
3. Describe symptoms of viral diseases in plants and methods of control of viral plant diseases. 10

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Turn Over

4. Describe the nature of genetic material in viruses. 10
5. Which type of bacteriophages exhibit lytic cycle ?
Describe the lytic cycle of DNA bacteriophages. 10
6. What are Viroids ? Name diseases caused by Viroids. 10
7. Write short notes on the following :
- (a) Pox virus
- (b) Retro virus 5,5
8. Write short notes on the following :
- (a) Human Immunodeficiency Virus
- (b) Polio Virus 5,5
9. Give an account of methods of culturing and techniques of purification of viruses. 10
10. Write short notes on the following :
- (a) Cyanophages
- (b) Prions 5,5