T.Y.B.SC. SEM – V (2014 Course) : SUMMER - 2019

SUBJECT : MICROBIOLOGY : VIROLOGY

Day : Monday
Date : 15/04/2019

Time : 12.00 NOON TO 02.00 PM
Max. Marks : 40

S-2019-1007

N.B.:

1) All questions are **COMPULSORY**.
2) Figures to the right indicate **FULL** marks.
3) Draw neat and labeled diagrams **WHEREVER** necessary.

Q.1 Attempt **ANY TWO** of the following: **[10]**

a) Describe one step growth curve in viruses.

b) Describe general characteristics of viroids and prions.

c) Enlist different methods for purification of viruses. Explain any one.

Q.2 Attempt **ANY TWO** of the following: **[10]**

a) Name and explain the experiment used to investigate the intracellular development of phage.

b) Explain structure of Influenza virus.

c) Describe with suitable examples different types of nucleic acids found in viruses.

Q.3 Attempt **ANY TWO** of the following: **[10]**

a) Differentiate between icosahedral and helical symmetry in viruses.

b) Describe the role of C_I protein in maintenance of Lysogeny.

c) What is deletion mapping?

Q.4 Write short notes on **ANY FIVE** of the following: **[10]**

a) Delayed early genes

b) Promoters in the λ genome

c) Prophage

d) Enveloped viruses

e) T odd phages

f) Cell lines in viral cultivation

g) Non-essential genes

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