

M. SC. (MICROBIOLOGY) SEM-IV (C.B.C.S.) (2012 COURSE) :

SUMMER - 2018

SUBJECT : VIROLOGY

Day : **Saturday**
Date : **21/04/2018**

S-2018-0911

Time : **03.00 PM TO 06.00 PM**
Max. Marks : 60

N.B.

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

Q.1 Describe pathogenesis, pattern of infection and control measures for Rabies. **(15)**

OR

Explain the various sites for replication of plant viruses and histological changes that occur in infected plants.

Q.2 a) Explain genome organization of T-even and T-odd phages with suitable example. **(08)**

b) Elaborate on use of animals in cultivation of viruses. **(07)**

Q.3 Attempt **ANY THREE** of the following: **(15)**

a) How plant viruses are detected using fluorescent antibody technique?

b) Comment on harvesting of viral components.

c) Diagrammatically illustrate the egg inoculation routes for cultivation of viruses.

d) Justify: Viral genome exists in different forms.

Q.4 Write short notes on **ANY THREE** of the following: **(15)**

a) Prions

b) Oncogenic viruses

c) Indicator plants

d) TCID 50

* * *