



A-3002

B. Sc. (Sem. III) (Microbiology) Examination

March/April – 2015

MB - 07 : Virology

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

नीचे दृष्टांतवें निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी.
Fillup strictly the details of signs on your answer book.

Name of the Examination :
B. Sc. (Sem. III) (Microbiology)

Name of the Subject :
MB - 07 : Virology

Subject Code No. : 3 0 0 2 Section No. (1, 2,.....): Nil

Seat No. :

Student's Signature

- (2) Figures to the right indicate full marks of the question.
(3) Draw neat and labelled diagrams wherever necessary.

1 Give specific answers :

12

- (a) Define: Capsomer and peplomers
(b) Name two scientists and state their contributions in the field of virology.
(c) Give the function of RNA replicase and RNA polymerase.
(d) Differentiate between cytocidal infection and cytopathic infection.
(e) Give the full form of following viruses
(a) EBV (b) HTLV
(f) What are baculoviruses? State their importance.

- 2** Explain/comment on any two of the following : **12**
- (1) Viral infections might be chronic or latent.
 - (2) Taxonomy of eukaryotic viruses classifies them into numerous families.
 - (3) Plant viruses have not been well studied as animal and bacterial viruses.
- 3** Discuss any two of the following in detail : **16**
- (1) Explain in detail sequential steps involved in the lytic cycle of a virus.
 - (2) Give a detailed account on the structure of a virus.
 - (3) Explain in detail the mechanism of host cell damage.
- 4** Write short notes on any two of the following: **10**
- (1) Characteristics used in virus taxonomy
 - (2) RNA phages
 - (3) Insect viruses
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