



RAN-1886

B.Sc. (Biotechnology) (Semester-V) CBCS Examination

March / April - 2019

BT12: Introduction to Virology

Time: 2 Hours]

[Total Marks: 50

सूचना : / Instructions

(1)

नीचे दृशविले निशानीवाणी विगतो उत्तरवही पर अवश्य लभवी.

Fill up strictly the details of signs on your answer book

Name of the Examination:

B.Sc. (Biotechnology) (Semester-V) CBCS

Name of the Subject :

Core 1: Course-02 - BT12: Introduction to Virology

Subject Code No.: 1 8 8 6

Seat No.:

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Student's Signature

(2) Figures to the right indicate full marks of the question.

(3) Draw neat and labeled diagrams wherever necessary.

Q-1: Give specific answers: (Any four)

(08)

- Expand the term ICTV. State its functions in the field of virology.
- Define: Capsid and envelope with respect to virus
- Define temperate bacteriophages. Give its example.
- Name two heavy metal compounds used in negative staining of viruses during electron microscopy.
- What is Rate Zonal Centrifugation? State its use in virology.

Q-2: Answer any Two of following:

(14)

- State general properties of DNA viruses. Describe any three families belonging to DNA viruses.
- Write a note on components of viruses.
- Write a note on Lysogenic life cycle of bacteriophage.

Q-3: Discuss any Two of the following (14)

- (a) Discuss: Replication cycle of RNA animal viruses.
- (b) Various microscopic techniques involved in structural investigation of virions.
- (c) Describe in detail: Infectivity Assay

Q-4: Attempt any Two of the following (14)

- (a) Discuss in detail the one step growth curve for virus enumeration and its analytical determinations.
 - (b) Brief account on Human Papilloma Virus infection
 - (c) Describe in detail: Vaccines & Drugs used to prevent or control Hepatitis B infection.
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