



DG-1682

**B. Sc. (Biotechnology) (Sem. V) (CBCS)
Examination**

March / April - 2016

**Core - 1 : Course - 2 : BT - 12 : Introduction to Virology
(New Course)**

Time : 2 Hours]

[Total Marks : 50

Instructions :

(1)

नीचे दृष्टावित्त निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
B. SC. (BIOTECH.) (SEM. V) (CBCS)	<input type="text"/>
Name of the Subject :	<input type="text"/>
CORE - 1 : COURSE - 2 : BT - 12 : INTROD. TO VIRO.	<input type="text"/>
Subject Code No. : <input type="text"/> 1 <input type="text"/> 6 <input type="text"/> 8 <input type="text"/> 2	Section No. (1, 2,.....): <input type="text"/> Nil
Student's Signature	

(2) Figures to the right indicate full marks.

(3) Draw neat and labelled diagrams wherever necessary.

1 Answer Any Four: (08)

- Define: Provirus. Give an example of virus able to form provirus.
- Explain: Burst time. Give an example of virus causing haemorrhagic fever.
- Define: Eclipse period. State one factor affecting the rate of replication of virus in human host.
- Give an example of live attenuated vaccine and inactivated vaccine used for prevention of Poliomyelitis virus.
- State components of bacteriophage.

2 Attempt Any Two: (14)

- State general properties of RNA viruses. Describe the families belonging to positive sense RNA viruses.
- Describe in detail the replication cycle of ds DNA animal viruses.
- Explain the quantitative assay used for determination of virus load.

- 3 Attempt **Any Two**: (14)
- a) Elaborate on: "How it was proved that the inheritance in viruses is carried on because of nucleic acids?"
 - b) Explain: Detection of viral nucleic acid.
 - c) Describe: treatment and vaccine development against HIV.
- 4: Attempt **Any Two**: (14)
- a) Describe lysogenic cycle of bacteriophage replication.
 - b) State the clinical symptoms of Hepatitis B virus infection.
 - c) Explain the techniques used for structural investigation of virus and virus infected cells.
-