

Seal No. 15962

QP-894
Total No. of Pages : 2

OCT_NOV_2024 WINTER EXAMINATION

Bachelor of Science
Sub. Name: MICROBIOLOGY -IX
Sub. Code: 97084

Day and Date: NOVEMBER ,26-11-2024
Time: 10:30 AM To 12:00 PM

Total Marks: 40

Instructions: 1. All questions are compulsory
2. Draw neat labelled diagrams wherever necessary
3. Figures to the right indicate full marks

Q1) Complete the following sentences by selecting the correct answer from the given [8]
alternatives:

- i. The capsid of tobacco mosaic virus consists of _____ identical capsomers.
A. 12
B. 252
C. 32
D. 2130
- ii. _____ are infectious protein particles without any DNA, RNA or capsid.
A. Viruses
B. Prions
C. Viroids
D. Interferons
- iii. Lysis of bacteria by bacteriophages gives rise to a clear, circular area in a layer of cells, known as _____.
A. pock
B. plague
C. plaque
D. phage
- iv. _____ is an example of temperate phage.
A. Lambda phage
B. T4 phage
C. Tobacco mosaic virus
D. Adenovirus
- v. Cancers originating in blood-forming cells are called _____.
A. carcinoma
B. lymphoma
C. sarcoma

[1]

P.T.O.



D. leukemia

- vi. Oncogene theory was proposed by _____.
 A. Lederberg
 B. Huebner and Todaro
 C. Jacob & Monad
 D. Watson & crick
- vii. _____ is the docking surface glycoprotein of HIV.
 A. gp-120
 B. p-9
 C. p-7
 D. p-24
- viii. Adenovirus enters its host by _____ process.
 A. direct entry
 B. viropexis
 C. surface melting
 D. pinocytosis

Q2) Attempt ANY TWO.

[16]

- a. Describe in detail the isolation and cultivation of animal viruses using tissue culture.
- b. Describe in detail the multiplication of tobacco mosaic virus.
- c. Discuss various methods used for the enumeration of viruses.

Q3) Write short notes on ANY FOUR.

[16]

- a. Isolation and cultivation of plant virus by whole plant method
- b. Structure of HIV
- c. One step growth experiment
- d. Integration of lambda genome into host genome
- e. Types of cancers
- f. Tumor suppressor genes

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[2]