Roll No. Total No. of Pages: 02

Total No. of Questions: 09

B.Sc. Honours (Microbiology) (Sem.-3)
VIROLOGY

Subject Code: BSMB-301-19

M.Code: 90367

Date of Examination: 12-12-22

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly:

- a) Draw T4 Phage structure.
- b) Name the stages of infection.
- c) What is SV40 virus?
- d) Difference between enveloped and non-enveloped virus.
- e) What are the salient features of wound tumor virus?
- f) What are interferons?
- g) Write down general principle of viral vaccination.
- h) What is capsid symmetry?
- i) What is host specific defence mechanism?
- j) Write down application of phages.

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SECTION-B

- 2. What is infection? Write down various stages of Infection.
- 3. Write down the replication pattern of Rhabdo Virus.
- 4. Broadly explain Lambda Temperate phage with Structure, Lytic & Lysogenic cycle.
- 5. Write down the origin of viruses with its general properties.
- 6. What are anti-viral compounds and explain their mode of action?

SECTION-C

- 7. Classify Viruses. Explain the isolation, purification and cultivation of viruses.
- 8. Draw the life-cycle and replication strategies of Hepatitis Virus.
- 9. Briefly discuss following:
 - a. What are Interferons?
 - b. Write down the general principles of Viral Vaccination.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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