

(2)

8. How is the proviral DNA of the retrovirus different from the RNA genome?

Group - B

Answer any **four** of the following questions : 5×4=20

9. Write a short note on prion diseases.
10. What is lysogenic conversion? What is the significance of this phenomenon?
11. Why are oncoviruses considered as retroviruses?
12. How do enveloped viruses acquire their membranes during their maturation in animal cells?
13. Discuss about the life cycle of T-even bacteriophages.
14. How do class 3 and 5 viruses of the Baltimore classification make mRNA?

Group - C

Answer any **one** of the following questions : 10×1=10

15. Why is the progression of HIV infection directly inter-related to viremia and the level of CD4 T cells in blood? What are the different modes of virus entry into cells? 6+4
16. Why does the viral DNA of a herpesvirus enter the cell nucleus to replicate? Clarify the significance of Hershey and Chase experiment. 5+5

Total Pages : 2

B.Sc./2nd Sem (H)/MCB/24(CBCS)

2024

2nd Semester Examination
MICROBIOLOGY (Honours)

Paper : C 4-T

(Virology)

[CBCS]

Full Marks : 40

Time : Two Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any **five** of the following questions : 2×5=10

1. What is meant by viral hemorrhagic fevers?
2. Cite two DNA viruses.
3. What is 'Common cold'?
4. What is meant by productive virus infection?
5. What are Type 1 and 2 interferons?
6. What is meant by complex virus?
7. What are viroids?

P.T.O.