



UNIVERSITY OF NORTH BENGAL
B.Sc. Honours 2nd Semester Examination, 2021

CC4-MICROBIOLOGY

Full Marks: 40

ASSIGNMENT

The figures in the margin indicate full marks.

Answer any four of the following questions

10×4 = 40

1. State the function of early genes in T4 phage. Classify the viruses on the basis of nucleic acid types. 5+5
2. Explain the characteristics of overlapping genes in terms of $\phi\times 174$, Hepatitis B virus. 10
3. Write down the general characteristics of oncogenic DNA viruses and explain their mechanism of action in human body taking any one example. 10
4. How is viral one-step growth experiment carried out? Summarize what occurs in each phase. 10
5. Describe lysogenic conversion and its significances. 10
6. Citing influenza virus genome as an example discuss about the segmented genome and its significances. What benefits do T4 phage obtains by incorporating unusual base in its genome? 6+4

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