



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

GE2-MICROBIOLOGY

Full Marks: 40

ASSIGNMENT

The figures in the margin indicate full marks.

The Question paper contains PAPER-III & PAPER-IV. The Candidates are required to answer any *one* from the *two* papers. Candidates should mention it clearly on the Answer Book.

PAPER-III

Answer any *four* of the following questions

10×4 = 40

1. Discuss the ultrastructure of 70s ribosome with suitable figure according to Stoffer's model. 10
2. Write a short note on different phases of bacterial growth. 10
3. Write down the salient features of *Deinococcus* and *Rhizobium*. 5+5
4. Write down the detail technique for isolation and cultivation of viruses. 10
5. Describe in detail the salient features of cauliflower mosaic virus. 10
6. Discuss the role of interferon and antiviral compounds during viral infection. 5+5

PAPER-IV

Answer any *four* of the following questions

10×4 = 40

1. Write a short note on thymus with suitable diagram. 10
2. Write a list of viral diseases of various organ systems and their causative agents. Briefly explain the mechanism of action of Amantadine and Acyclovir. 5+5
3. How does pH and oxygen concentration affect the types of microorganisms that grow in each different regions of the gastrointestinal tract? 10

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| 4. | Give a brief account on two viral diseases. | 5+5 |
| 5. | Discuss about direct and indirect ELISA with proper diagram. | 5+5 |
| 6. | Identify the two main categories of autoimmune disease with respect to antigens and immune effectors. | 10 |

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