



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 1st Semester Examination, 2022

GE1-P1-MICROBIOLOGY (1.1 & 2.1) (PRACTICAL)

Time Allotted: 4 Hours

Full Marks: 20

The figures in the margin indicate full marks.

The Question paper contains Paper-1.1 & Paper-2.1. The Candidates are required to answer any *one* from the *two* papers. Candidates should mention it clearly on the Answer Book.

PAPER-1.1

- | | | |
|----|---|---------|
| 1. | Identify and comment on the given samples A, B, C and D. | 2×4 = 8 |
| 2. | Prepare nutrient agar plates and after exposure demonstrate the presence of air microflora. | 7 |
| 3. | Laboratory records | 2 |
| 4. | Viva-voce | 3 |

PAPER-2.1

MICROBIAL METABOLISM

Answer the following

- | | | |
|----|--|---|
| 1. | Find out the optimum pH for the growth of supplied <i>E.coli</i> culture using turbidimetric method and comment on your result. | 8 |
| 2. | Plot the growth curve of <i>E.coli</i> from the provided data (OD value) and calculate the generation time and specific growth rate. | 7 |
| 3. | Laboratory note book | 2 |
| 4. | Viva-voce | 3 |

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