



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.Sc. Programme 6th Semester Examination, 2022

DSE1/2/3-P2-MICROBIOLOGY (DSE-3.1 & 4.1) (PRACTICAL)

Time Allotted: 4 Hours

Full Marks: 20

The figures in the margin indicate full marks.

**The question paper contains Paper-3.1 and Paper-4.1.
Candidates are required to answer any *one* from the *two* Papers
and they should mention it clearly on the Answer Book.**

PAPER-3.1

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|----|--|----|
| 1. | Perform the experiment for preparation of master plate and replica plate. | 10 |
| 2. | Prepare competent cells required for transformation with the provided bacterial cells. | 4 |
| 3. | Viva-voce | 4 |
| 4. | Practical | 2 |

PAPER-4.1

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|----|---|----|
| 1. | Perform the following using supplied bacterium Sample A and comment
(a) Citrate Test
(b) Indole Test. | 10 |
| 2. | Identify the photographs provided (Sample B) and comment on symptoms of the disease. | 4 |
| 3. | Viva-voce | 4 |
| 4. | Lab record | 2 |

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