



'সমানো মন্ত্র: সমিতি: সমানী'

**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 plates.             | 10 |
| 2. | Prepare competent cells required for transformation with the provided bacterial cells. | 4  |
| 3. | Practical note book  | 2  |
| 4. | Viva-voce  | 4  |

**PAPER-4.1**

**MEDICAL MICROBIOLOGY**

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|----|--|----|
| 1. | Perform the following tests using supplied bacterium (sample A) and comment.<br>(a) MR test.<br>(b) Catalase test. | 10 |
| 2. | Identify the photographs provided in sample B and comment on symptoms of the diseases.                             | 4  |
| 3. | Viva-voce  | 4  |
| 4. | Lab record   | 2  |

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