



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 4th Semester Examination, 2022

GE2-P2-MICROBIOLOGY (GE-3.1 & 4.1) (PRACTICAL)

Time Allotted: 4 Hours

Full Marks: 20

*The figures in the margin indicate full marks.
All symbols are of usual significance.*

The question paper contains PAPER-3.1 & PAPER-4.1 The Candidates are required to answer any *one* from the *two* papers. Candidates should mention it clearly on the Answer Book.

PAPER-3.1

BACTERIOLOGY AND VIROLOGY

- | | | |
|----|----------------------------------------------------------------------------------|----|
| 1. | Perform Gram staining using given bacterium (A) and comment on its Grams nature. | 10 |
| 2. | Isolate pure culture of bacteria by streaking method using given sample (B). | 4 |
| 3. | Laboratory record | 2 |
| 4. | Viva-voce | 4 |

PAPER-4.1

MEDICAL MICROBIOLOGY AND IMMUNOLOGY

- | | | |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 1. | Determine the MIC of the supplied antibiotic against the supplied bacterial culture (A) by agar cup diffusion method and comment on the result. | 10 |
| 2. | Perform the following tests using supplied bacterium B and comment on your result.
(i) MR, VP
(ii) Indole | 2×2 = 4 |
| 3. | Laboratory records | 2 |
| 4. | Viva-voce | 4 |

—×—