



‘समानो मन्त्रः समितिः समानी’

**UNIVERSITY OF NORTH BENGAL**  
B.Sc. Honours 5th Semester Examination, 2022

**DSE-P2-MICROBIOLOGY (3.1 & 4.1) (INSTRUCTION)**

Time Allotted: 4 Hours

Full Marks: 20

**INSTRUCTION TO THE EXAMINERS**

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

**DSE-3.1**

1. Students should be provided with chemical and reagents required for metagenomic DNA isolation
  - (a) Soil Sample
  - (b) Electrophoretic chamber
  - (c) Transilluminator.

**DSE-4.1**

1. Each student should be provided with:
  - (a) Soil sample (oil contaminated)
  - (b) Serial dilution tubes
  - (c) Tributyrin agar medium / Lipase screening medium plates
  - (d) Spreaders and other essential things to carry out experiment in aseptic condition.

—x—