



‘समानो मन्त्रः समितिः समानी’

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

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

Time Allotted: 4 Hours

Full Marks: 20

*The figures in the margin indicate full marks.*

**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**

**Answer the following questions**

1. Isolate metagenomic DNA from soil and resolve DNA sample by agarose gel electrophoresis and visualize. 10
2. Describe the method how the poliovirus genome was synthesized in laboratory. 5
3. Laboratory Note Book 2
4. Viva-voce 3

**DSE-4.1**

**Answer the following questions**

1. Perform the experiment of isolation of lipase producing bacteria from soil sample. 10
2. Explain the cultural conditions for growth of spirulina. 5
3. Lab record 2
4. Viva-voce 3

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