



‘समानो मन्त्रः समितिः समानी’

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

**DSE-P1-MICROBIOLOGY (1.1 & 2.1) (PRACTICAL)**

Time Allotted: 4 Hours

Full Marks: 20

*The figures in the margin indicate full marks.*

**The question paper contains two papers DSE-1.1 and DSE-2.1.  
The candidates are required to answer any *one* from the *two* papers.  
Candidates should mention it clearly on the Answer Book.**

**DSE-1.1**

**Answer the following questions**

- |    |   |   |
|----|---|---|
| 1. | Perform separation of compounds of a given mixture using lab. scale centrifuge. | 7 |
| 2. | Perform separation of mixture by paper chromatography.                          | 8 |
| 3. | Laboratory records  | 2 |
| 4. | Viva-voce   | 3 |

**DSE-2.1**

**Answer the following questions**

- |    |   |    |
|----|---|----|
| 1. | Perform the experiment for cytochemical staining of DNA by Feulgen. | 10 |
| 2. | Identify the stages of mitosis and comment on the observation.      | 5  |
| 3. | Viva-voce   | 3  |
| 4. | Lab records   | 2  |

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