

UNIVERSITY OF NORTH BENGAL

B.Sc. Programme 6th Semester Examination, 2022

DSE1/2/3-P2-MICROBIOLOGY (DSE-3.1 & 4.1) (INSTRUCTION)

Time Allotted: 4 Hours Full Marks: 20

INSTRUCTION TO THE EXAMINERS

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

- 1. Supply the following: for replica plating.
 - (a) 1gm of soil sample (to be serially diluted in buffer pH7 upto 10^{-7}).
 - (b) Spread plate from 10^{-5} , 10^{-6} , 10^{-7} with 0.1 ml of diluted sample in NA plates.
 - (c) Provide 6 NA plates.
 - (d) Velvet cloth and funnel.
- 2. Provide 100mM CaCl₂ and E. coli strain; other necessary reagents and equipments.

PAPER-4.1

- 1. Supply the following:
 - (a) Sample A \rightarrow Provide half of the students with E. coli and half with B. subtilis.
 - (b) Reagents for citrate utilization and Indole test (Kovac's reagent etc).
- 2. Provide the photographs of studied any one virus. (Sample B)

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