



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 4th Semester Examination, 2022

CC9-MICROBIOLOGY (CC-9.1) (INSTRUCTION)

ENVIRONMENTAL MICROBIOLOGY

Time Allotted: 4 Hours

Full Marks: 20

INSTRUCTION TO EXAMINERS (Not for Students)

1. Each student should be provided with
 - (i) Soil sample A from rhizosphere region. (1gm)
 - (ii) Three nutrient agar plates.
 - (iii) 7 serial dilution tubes containing sterile distilled water. Students need to spread plate sample from 10^{-3} , 10^{-5} and 10^{-7} dilutions.
 - (iv) Spreaders, lamp and other essential things required for carrying out experiment in aseptic condition (spread plate).
Supply reagents for standard plate count.

2. Each student should be provided with
 - (i) Root nodules (Sample B)
 - (ii) Slides
 - (iii) Stains for gram staining (CV, Safranin, Iodine, Ethanol, etc)
 - (iv) Microscopes
 - (v) 70% alcohol, 0.5% Sodium hypochlorite and sterile distilled water for surface sterilization / Examiners can provide already surface sterilized nodules to students.

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