



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 2nd Semester Examination, 2022

GE1-P2-MICROBIOLOGY (GE-3.1 & 4.1) (INSTRUCTION)

Time Allotted: 4 Hours

Full Marks: 20

INSTRUCTION TO EXAMINERS

The Question paper contains PAPER-3.1 & PAPER-4.1. The Candidates are required to answer any *one* from the *two* papers. Candidates should mention it clearly on the Answer Book.

PAPER-3.1

BACTERIOLOGY AND VIROLOGY

1. Supply sample A– Either gram positive or gram negative organism to each student. Supply the reagents and other necessary items for gram staining (Crystal violet, Safranin, Iodine, Ethanol etc).

Note: Uniformly distribute gram positive and gm negative sample A among students.

2. Supply the electron micrographs of sample B (RNA virus – TMV).
3. Supply sample C– bacterial broth (gram +ve / –ve) culture. And supply a sterile petriplate containing Nutrient agar or LB Agar and other necessary equipments for streaking.

PAPER-4.1

MEDICAL MICROBIOLOGY AND IMMUNOLOGY

1. Supply any one of the bacterial Sample A (Fecal or non-fecal coliform), IMViC reagents and required apparatus (Reagents: Indole, Methyl Red, Voges Proskauer, Citrate utilization).

Uniformly distribute sample A (fecal/non-fecal) among students.

2. Supply antibodies for different Rh factor of human blood and supply the blood sample B.

Uniformly distribute sample B (A/B/AB/O) among students.

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