



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 3rd Semester Examination, 2022

GE2-P1-MICROBIOLOGY (1.1 & 2.1) (INSTRUCTION)

Time Allotted: 2 Hours

Full Marks: 20

INSTRUCTIONS TO THE EXAMINERS

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

PAPER-1.1

INTRODUCTION AND SCOPE OF MICROBIOLOGY

1. Provide sterile petriplates and autoclaved (molten) nutrient agar media (15 ml /student).
Provide other basic laboratory facilities for performing the experiment aseptically.
2. Provide any *two* of the following as A and B for identification:
 - (a) Laminar Airflow
 - (b) Incubator
 - (c) Autoclave
 - (d) Microscope (Light)
 - (e) Hot air oven

PAPER-2.1

1. Provide OD vs time readings (approx 20 readings) covering lag, log, stationary and decline phase of growth curve.
Provide graph paper atleast one per student.
2. (a) Provide 3 nutrient broth tubes 10 ml each (pH of 5, 7 and 9) to each student.
(b) Overnight *E.coli* culture for inoculation (0.1 ml per tube per student) is to be provided.
(c) Provide instruments, distilled water and other general laboratory facilities for performing the experiment aseptically.
(d) Provide initial OD of media, immediately after inoculation for all three tubes (pH of 5, 7 and 9).

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