



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL
B.Sc. Programme 6th Semester Examination, 2022

DSE1/2/3-P2-BOTANY (PRACTICAL)

Time Allotted: 2 Hours

Full Marks: 20

The figures in the margin indicate full marks.

**The question paper contains paper DSE-2A, DSE-2B and DSE-2C.
The candidates are required to answer any *one* from *three* papers.
Candidates should mention it clearly on the Answer Book.**

DSE-2A

ECONOMIC BOTANY AND BIOTECHNOLOGY

1. Describe in detail the anatomy of the economically important part of given Specimen A . 5
2. Comment on Specimen B and describe the technique. 5
3. Identify with reasons Specimen C and D. 5
4. Submission of laboratory note book 2
5. Viva-voce 3

DSE-2B

INDUSTRIAL AND ENVIRONMENTAL MICROBIOLOGY

1. Mention the working principles and identify the laboratory instruments (centrifuge, autoclave, incubator etc., photographs of any four to be given) (1+1)×4=8
2. Describe the requirements and procedure for media preparation for isolating fungi / bacteria (any one). (Requirements- 3; Procedure- 4) 7
3. Laboratory note book submission 2
4. Viva-voce 3

DSE-2C

ANALYTICAL TECHNIQUES IN PLANT SCIENCES

1. Write the principle and explain the figure of the experimental results given below. 2+4=6
[Photograph of SDS-PAGE to be given]
- OR**
- Write the name, major requirements of the experiment (Photograph of Western Blotting to be given) and comment on the result of the experiment. 1+2+3=6
2. Determine the concentration of supplied protein sample (Standard curve to be provided) (Principle = 2, Requirements = 2, Experiment = 3 and Result = 2) 9
3. Submission of laboratory note book 2
4. Viva-voce 3

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