



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 4th Semester Examination, 2022

CC8-BOTANY (PRACTICAL)

MOLECULAR BIOLOGY

Time Allotted: 2 Hours

Full Marks: 20

The figures in the margin indicate full marks.

1. Comment on the following event / mechanism (Specimen A) 5
[Photographs of DNA replication: any one to be selected from rolling circle, theta replication and semi-discontinuous DNA replication]

 2. Identify the Experiment and mention the observation and conclusion drawn from the experiment (Specimen B) 1+2+2 =5
[Photographs of any one to be selected from the experiments of Avery *et al.*, Griffith and Hershey & Chase]

 3. Identify and mention the features of the photograph given (Specimen C) 1+4=5
[Any one to be selected from the photographs of prokaryotic RNA polymerase and splicing of introns]
- OR**
- Determine the concentration of supplied DNA solution by DPA method (Standard curve to be provided). (Principle = 2, Results and calculation = 3) 5

 4. Submission of laboratory note book 2

 5. Viva-voce 3

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