



UNIVERSITY OF NORTH BENGAL
B.Sc. Honours 6th Semester Examination, 2021

CC14-BOTANY

PLANT BIOTECHNOLOGY

Full Marks: 40

ASSIGNMENT

*The figures in the margin indicate full marks
Candidates should answer in their own words and adhere to the word limit as practicable
All symbols are of usual significance*

Answer any four of the following questions within 300 words each 10×4 = 40

1. Discuss the method of protoplast culture with diagram. 10
2. Give an account of the classification of restriction endonucleases and mention the role of type-II restriction endonuclease in molecular biology. 10
3. Describe the method of construction of genomic and cDNA libraries. 10
4. Discuss the *Agrobacterium* – mediated gene transfer method for transgenic development with diagram. 10
5. Write short notes on: 10
 - (i) Golden Rice
 - (ii) Bt-cotton.

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