



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

CC14-MICROBIOLOGY

Full Marks: 40

ASSIGNMENT

The figures in the margin indicate full marks.

Answer any four of the following

10×4 = 40

1. Describe the process of cDNA synthesis and its screening. 10
2. Write short notes on YAC and lambda replacement vectors. 10
3. Describe the process of southern blotting. 10
4. Give a detail account of Sanger DNA sequencing. 10
5. How does the foreign DNA is delivered in plant by *Agrobacterium*? 10
6. A clone bank is often constructed by completely digesting a plasmid vector with restriction enzyme X and ligating it with chromosome DNA that has been partially digested by restriction enzyme Y. 10
 - (a) Why are two different enzymes used in this experiment?
 - (b) Why is partial digestion often used for constructing clone banks?

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