



UNIVERSITY OF NORTH BENGAL
B.Sc. Honours 1st Semester Examination, 2020

CC1-BOTANY

PHYCOLOGY AND MICROBIOLOGY

Full Marks: 40

ASSIGNMENT

*The questions are of equal value.
The figures in the margin indicate full marks.*

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

1. Comment on the ultrastructure of a cyanophycean cell with neat diagrams. 10
2. Classify and characterize viruses on the basis of Baltimore classification. 10
3. Define triphasic life cycle and describe the post-fertilizaion changes in *polysiphonia*, with suitable sketches. 2+8 = 10
4. Describe briefly the various methods of genetic recombination in bacteria with suitable diagrams. 10
5. Describe the sexual reproduction of a coenocytic and siphonaceous alga that you have studied and comment on its taxonomic status. 7+3 = 10

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