



‘समानो मन्त्रः समितिः समानी’

UNIVERSITY OF NORTH BENGAL
B.Sc. Honours 2nd Semester Examination, 2022

CC3-BOTANY

MYCOLOGY AND PLANT PATHOLOGY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

GROUP-A

1. Answer any *five* questions from the following: 1×5 = 5
- (a) What is an obligate saprophyte? Give one example.
 - (b) What is pseudoplasmodium?
 - (c) Name one species of fungus used for flavour improvement of food.
 - (d) What is aecial cup? Cite one example where it occurs.
 - (e) Mention the composition of a commercially used mycofungicide.
 - (f) Explain “disease triangle”.
 - (g) What is cleistothecium? Cite one genus that produces it.
 - (h) What are eucarpic fungi?

GROUP-B

2. Answer any *three* questions from the following: 5×3 = 15
- (a) Explain the nature of cell wall in true fungi.
 - (b) Define quarantine and explain its role in disease control.
 - (c) “There is a progressive deterioration of sexuality in fungi”. Justify this statement from the types you have studied.
 - (d) Discuss the method of ascus development in Ascomycetes with suitable diagrams.
 - (e) Comment on the nature of association between mycobiont and phycobiont in a lichen thallus.

GROUP-C

3. Answer any *two* questions from the following: 10×2 = 20
- (a) Describe the symptoms, predisposing factors and the disease cycle of angular leaf spot of cotton. Name the causal organism. 3+3+3+1=10
 - (b) Mention the diagnostic characters of Basidiomycotina and Zygomycotina. What is heterothallism? 4+4+2 = 10
 - (c) Give an illustrated account of the life cycle of *Puccinia graminis tritici*. 10
 - (d) Schematically describe the different kinds of life cycle in *Saccharomyces*. State its economic importance. 7+3 = 10

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