



'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 1st Semester Examination, 2022

CC1-TEA SCIENCE

PLANT DIVERSITY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

1. Answer any **five** from the following: 1×5 = 5
- (a) How many cotyledons are present in *Pinus* seed?
 - (b) The wings in the pollen grain of *Pinus* are extensions of _____.
 - (c) Name the storage food present in red algae.
 - (d) Write the scientific name of an edible mushroom.
 - (e) What is heterospory?
 - (f) Symbiotic association of algae and fungi is known as _____.
 - (g) What is sporocarp?
 - (h) Who is the father of Indian algology?
2. Answer any **three** from the following: 5×3 = 15
- (a) Describe the structure of ovule of *Pinus* sp. with proper diagram. 5
 - (b) Write a short note on reproduction of *Nostoc* sp. 5
 - (c) Write a short note on general characters of Pteridophyta. 5
 - (d) Briefly explain the general characteristics of fungi. 5
 - (e) Write the advanced characters of *Anthoceros*. 5
3. Answer any **two** from the following: 10×2 = 20
- (a) Give a detailed account on the life cycle of *Cycas* sp. 10
 - (b) Discuss the life cycle of *Chlamydomonas* sp. 10
 - (c) Explain the life cycle of *Equisetum* sp. with the help of line diagrams. 10
 - (d) Describe the ecology and economic importance of fungi. 10

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