



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 1st Semester Examination, 2021

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) Name an RNA virus. 1
 - (b) In which plant coralloid root is present? 1
 - (c) What is mycorrhiza? 1
 - (d) Who is known as the “Father of modern algalogy in India”? 1
 - (e) Name an alga where reticulate chloroplast is present. 1
 - (f) What is peristome teeth? 1
 - (g) What is flagella? 1
 - (h) Name one pathogenic bacteria. 1
2. Answer any **three** from the following: 5×3 = 15
- (a) Describe the gametophyte of *Funaria*. 5
 - (b) Write a short note on a typical *Oedogonium* cell. 5
 - (c) Describe the structure of microsporangia in *Pinus*. 5
 - (d) Briefly describe the megasporophyll of *Cycas*. 5
 - (e) Write about economic importance of Bacteria. 5
3. Answer any **two** from the following: 10×2 = 20
- (a) Describe the process of Transduction in Bacteria. 10
 - (b) Give a detailed account on the life cycle of *Pinus*. 10
 - (c) Write the general characteristic features of Pteridophytes. Give the economic importance of Pteridophytes with examples. 5+5
 - (d) Write about the structure and reproduction in *Chlamydomonas* with suitable diagram. 10

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