

# Bankura University

B.Sc 1st SEMESTER(Honours) EXAMINATION, 2021

Subject: **Botany**

Course ID: 11314

Course Code: SHBOT/103/GE-1

Course Title: **Plant Biodiversity**(Microbes,Algae, Fungi, Archegoniate)

Full Marks: 25

Time: 1h 15 Min

The figures in the margin indicate full marks

Answer all the questions.

## UNIT I

1. Answer *any five* of the following questions: (1×5=5)

- a. Name one heterotrichous alga.
- b. Name one heterosporous pteridophytes.
- c. What is amyllum star?
- d. Name the reserve food of green and red algae.
- e. What is akinete?
- f. Name the first vascular plant group.
- g. How an ascus differs from basidium.
- h. Why are bryophytes called the amphibian in plant kingdom?

## UNIT II

2. Answer *any two* of the following questions: (5×2=10)

- a. Describe the structure of *heterocyst*. State its function in agriculture?
- b. Draw a labelled sketch of the transverse section of *Cycas* leaf.
- c. Draw and describe the internal structure of *Marchantia* thallus.
- d. Describe the economic importance of algae.

## UNIT III

3. Answer *any one* of the following questions: (10×1=10)

- a. Draw and describe the cell structure of a cyanophycian cell. Mention the prokaryotic features of cyanophyceae.
- a) What is alternation of generation? Describe the sexual reproduction of *Chara* with suitable sketches.