

Bankura University

B.Sc 1st SEMESTER(Program) EXAMINATIONS, 2021

Subject: **Botany**

Course ID: 11318

Course Code: SPBOT/101/C-1A

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: (5x1=5)

- a. What is algal bloom?
- b. Name one homosporous pteridophyte.
- c. Why bryophytes are called the amphibian in plant kingdom?
- d. State the bacterial features of Cyanophycean algae.
- e. State the difference between zoospores and aplanospores.
- f. State the two general features of Pteridophytes.
- g. Name the fruiting bodies of Ascomycetes group of fungi.
- h. Name two species of *Rhynia*.

UNIT II

2. Answer *any two* of the following questions: (2x5=10)

- a. Describe the general features of Cyanophyceae. What is heterocyst?
- b. Draw a labelled sketch of the transverse section of *Pinus* leaf.
- c. Draw and describe the ascocarp of *Ascobolous*.
- d. Describe the structure of cystocarp of *Polysiphonia*.

UNIT III

3. Answer *any one* of the following questions: (1x10=10)

- a) Describe the range of thallus organization in algae.
- b) Describe the sporophytic structure of *Funaria* . State the advance characters of *Funaria* capsule.