

# Bankura University

B.Sc 2<sup>nd</sup> Semester (Honours) Examination, 2022

Sub: Botany

Course ID: 21312

Course Code: SHBOT/202/C-4

Course Title: Archegoniate (Bryophyta, Pteridophyta & Gymnosperm) and Palaeobotany

Full Marks: 25

Time: 1 hr 25 mins.

The figures in the margin indicate full marks

Answer all the questions.

## UNIT I

1. Answer any five of the following questions: 1X5 =5

- a) What is amphigastria?
- b) Why the stem and leaves of bryophytes are not considered true stem and leaves?
- c) Name two Indian species of *Cycas*.
- d) Why *Rhynia major* has been renamed as *Aglaophyton major*?
- e) Differentiate Rhizoid and Scale in bryophytes.
- f) What is heterospory?
- g) What is compression?
- h) Define fossil.

## UNIT II

2. Answer any two of the following questions: 5X2 = 10

- a. Give an account of the advanced features found in the sporophyte of *Anthoceros*.
- b. With labeled diagrams, describe the different stellar structures as you find in the stems of Pteridophytes.
- c. Write a short note about angiospermic characters of *Gnetum*. What is “tent pole”? 4+1
- d. Describe the internal structure of *Marchantia* with neat sketches. 3+2

## UNIT III

3. Answer any one of the following question: 10X1 = 10

- a. Schematically represent the geological time scale with brief mention of the major flora of the ages. 5+5
- b. Write a detailed account of various ecological and economical importance of Gymnosperms. 5+5