

2022
BOTANY
[Honours]
(B.Sc. Second Semester End Examination-2022)
PAPER-C4T
[ARCHEGONIATE]

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks
Candidates are required to give their answers in their own words as
far as practicable
Illustrate the answers wherever necessary

1. Answer any five question: 5x2=10
- a. What are elaters and elatophores?
 - b. Define endothecium and amphithecium tissue.
 - c. Distinguish between leptosporangiate and eusporangiate fern?
 - d. Mention two angiospermic characters of the ovule of *Gnetum*.
 - e. What is rhizophora?
 - f. Mention the name of an aquatic fern. What is megasporophyll?
 - g. What is transfusion tissue? What is its function?
 - h. Why pteridophyta is placed under Tracheophyta ?
2. Answer any four of the following: 4x5=20
- a. Write short note about the strobilus of *Selaginella*. What is ligule? 4+1
 - b. What is the ecological significance of *Sphagnum* Sp. 5

(2)

- c. Describe the thallus structure of *Marchantia*. What is gemma cup? 4+1
- d. Give an account about the tissue differentiation in *Riccia* thallus. 5
- e. Describe the structure of an ovule of *Cycas* with sketches. 3+2
- f. Write the economic importance of Pinus Sp. 5

3. Answer any one question: 1x10=10

- a. Give an account on evolution of sporophytes of bryophytes.
What are peristome teeth. 8+2
- b. Describe the telome theory with suitable sketches. What is apospory? 8+2