

U.G. 2nd Semester Examination - 2022**BOTANY****[HONOURS]****Course Code : BBOTCCHC202****Course Title : Archegoniate and Paleobotany**

Full Marks : 30

Time : 2 Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.**Provide neat diagrams wherever necessary.*

1. Answer any **ten** of the following questions:
1×10=10
- What is 'gemmae cup'?
 - Define 'Pseudoelater'.
 - What is 'sphagnum Peat'?
 - What is 'Peristome teeth'?
 - What is Giant horse tails?
 - Define Leptosporangiate ferns.
 - What do you mean by Anisophyllous leaves?
 - Give two uses of pteridophyter.

- What is incipient heterospory?
- What is Pycnoxylic wood?
- Give two xerophytic features of *Pinus* sp.
- What is Sulphur shower in Pines?
- What do you mean by Syndetocheilic stomata?
- Define - Carbon dating.
- What is Molds?

2. Answer any **five** questions: 2×5=10
- What do you mean by geological true table?
 - What is vallecular canal? Where do you find it?
 - What are the features of ovuliferous Scale in Pines?
 - Give the characteristics of female cone of Gnetum.
 - What is coralloid root? Where do you find it?
 - Give four angiospermic features of Gnetum.
 - Bryophytes are amphibians in plant kingdom —Justify.
 - How does fertilizations take place in *Funaria*?

3. Answer any **two** questions : $5 \times 2 = 10$

- a) Give a brief idea of the evolutionary trends in the sexual systems of Bryophytes. What is Amphigastria? $4 + 1 = 5$
- b) What is heterospory? Describe the stelar structure of Selaginella. $1 + 4 = 5$
- c) How does the process of fertilization embryo development takes place in Pinus? What is Canada Balsam? $4 + 1 = 5$
