B.Sc. 1st Semester (Honours) Examination, 2022 (CBCS)

Subject : Botany Course : CC-II

Archegoniate

Time: 2 Hours Full Marks: 40

> The figures in the margin indicate full marks Candidates are required to give answers in

their own words as far as practicable.	
1. Answer any five of the following questions:	2×5=10
(a) What is peristome teeth? State its function.	1+1
(b) Name one aquatic and one terrestrial species of Riccia.	1+1
(c) What is incipient heterospory? Give example.	1+1
(d) What is amphiphloic siphonostele? Name one Pteridophyte where amphiphloic siphonostele is found.	
(e) Differentiate between eusporangiate and leptosporangiate ferns.	2
(f) Name one Gymnosperm where archegonia is not developed. Name one climber sp. of Gymnosperm.	
(g) Write the fern characters of Cycas.	2
(h) Differentiate between apogamy and apospory.	2
Answer any two of the following questions:	5×2=10
(a) Draw and describe the internal structure of Marchantia sporogonium.	2+3
(b) Write a short note on morphological nature of the Selaginella rhizophore.	
(c) Draw and describe the internal structure of Pinus niddle.	
(d) Write a short note on the Economic importance of Gymnosperms.	
Answer any two of the following questions:	10×2=20
(a) Draw and describe the different kinds of stele found in the genus <i>Lycopodium</i> with examples. 5+5	

- 3. A

 - (b) Draw and describe the internal structure of the Anthoceros sporophyte. Why Anthoceros is 6+4 placed under a synthetic group?
 - (c) Write the angiospermic characters of Gnetum. Draw and describe the male and female 4+6 fructifications of Gnetum.
 - (d) Name one pteridophyte where elater is found. Draw and describe the L.S. of strobilus of that 2+3+5 pteridophyte.

2.