

**B. Sc. Honours Examination  
(Under CBCS Pattern)  
Semester: II  
Sub: Botany  
Paper: CC4 (Theory and Practical)  
(Archegoniate)**

**Part A: Archegoniate (Theory)**

Answer any **one question** from the following (Within 200 words):

1. Write the characteristic features of *Rhynia* as an early land plant.
2. Write about the anatomical peculiarities of *Equisetum*.
3. Write short note on telome theory.
4. Difference between apospory and apogamy.
5. Draw and describe the female cone of *Pinus*.
6. Write a short note on the economic importance of Bryophytes.
7. Write the angiospermic characters of *Gnetum*.
8. Why Bryophytes are called the amphibians of the plant kingdom?
9. What are the xerophytic and fern characters of *Cycas*?
10. Classify Bryophytes (upto class) and write the characteristic features of Hepaticopsida.

**Part B: Archegoniate (Practical)**

Answer any **one question** from the following (Within 200 words):

1. Draw and describe the transverse section of needle of *Pinus*.
2. Draw and describe the transverse section of coralloid root of *Cycas*.
3. Draw and label the longitudinal section of the strobilus of *Selaginella*.
4. What are pseudoelaters? What is their function.
5. What are peristome teeth? What is their function?
6. Draw and label the vertical section of the ovule of *Gnetum*.
7. Draw and label the vertical section of leaflet of *Cycas*.
8. Draw and label the parts of sporophyll of *Pteris*.
9. What are the identification characters of *Psilotum*?
10. Draw the vegetative body of *Equisetum* with the strobilus and label.