**Hiralal Mazumdar Memorial College for Women, Dakshineswar**

**Department of Botany,**

**Semester II, Botany Honours**

**Core Course IV: Archegoniate**

**Course Code: BOTACOR04T**

**Theory**

**Time - 1 hr Full Marks: 25**

1 Answer the following questions (**any 6**) (1 x 6)

a) Do pteridophytes have vascular tissue?

b) What is Gemma cup?

c) What is the role of peristome teeth?

d) What is Synangia?

e) What is Ligule?

f) What is sulphur shower?

g) Write the difference between homospory and heterospory.

2 Answer the following questions (**any 3**) (3 x 3)

a) Explain briefly the adaptation to land habit in bryophytes.

b) Write the comparison between the sporophytic structure of *Riccia* and *Marchantia.*

c) Write down the systematic position of *Psilotum* sp.

d) What is apogamy and apospory.

3 Answer the following questions (**any 2**) (5 x 2)

a) Describe briefly reproductive structure of *Selaginella* sp.

b) Distinguish between stem anatomy of *Pinus* and *Gnetum*.

c) Classify pteridophytes by Sporn 1975 (upto Class).

**The assignment should be submitted to Smt. Ishita Chatterjee, Department of Botany, Hiralal Mazumdar Memorial College for Women, Dakshineswar**