**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 BRIEFLY: (1×6=6)**

1. Write the main photosynthetic organ of the genus *Psilotum* sp. (1)
2. Write the significance of Transfusion Tissue.(1)
3. What is Gemma? (1)
4. Write one primitive character of the genus *Psilotum* sp. (1)
5. Name a aquatic bryophyte ? (1)
6. Name a gymnosperm with manoxylic wood.(1)

**2. ANSWER ANY THREE QUESTIONS: (3×3=9)**

a)Briefly describe the structure of sporangia of the genus *Psilotum* sp. (3)

b) Draw VTS through gametophyte showing the mature sporophyte of *Riccia.* (3)

c) Classify bryophytes according to Proskauer upto class with characteristic features of any one class with examples.

d)Draw a well labelled diagram of longitudinal section of female cone of *Pinus*.(3)

**3. ANSWER ANY THREE QUESTIONS: (5×2=10)**

a) Describe the anatomical features of *Psilotum* sp with suitable diagram. (5)

b) Describe with well labelled diagram of the internal structure of gametophyte of *Marchantia*. (5)

c)Mention some economic importance of Gymnosperms.(5)

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