

**2020**  
**B.Sc. Sem-II**  
**BOTA**  
**CC-4 (Archaeogniate)**  
**Section A**  
**(Theory)**

Time 2 hours

FM-25

Answer Any 5 questions:

5x5=25

1. Write a short note on the structure of gemma of *Marchantia* sp.
2. Write the development of antheridium of *Funaria* sp.
3. Write a short note on rhizophore of *Selaginella* sp.
4. Write down the features of internal structures of stem of *Equisetum* sp.
5. Write a note on embryogeny of *Pinus* sp.
6. Write the difference between haploxyton and diploxyton pines.
7. Write the development of female gametophyte of *Cycas* sp.

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**Section B**  
**(Practical)**

FM-15

Answer the following questions:

15x1=15

1. Name an Indian Species of *Cycas*.
2. What kind of ovule you can find in *Cycas* sp.?
3. What is linear tetrad?
4. What is ovuliferous scale?
5. What is foliar spur?
6. Where you can find glossopodium?
7. What is the name of outer layer of a megaspore of *Selaginella* sp.?
8. What is the endosporic type of gametophyte development?
9. What is eusporangiate type of sporangium development?
10. Name an Indian species of *Equisetum* sp.
11. Name an Indian species of *Marchantia* sp.
12. What is perispore?
13. What is theca?
14. What is apophysis?
15. What is DPX?

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**Section C**  
**(Internal Examination)**

FM-10

Answer the following questions:

10x1=10

1. What is perichaetical leaf?
2. How many androcytes are found in *Selaginella* sp.?
3. What is valecular canal?
4. Which pteridophyte is known as ‘Gold Indicator’?
5. What is paraphysis?
6. What is trabaculae?
7. What type of symbiosis you can find in *Pinus* sp. Root?
8. What is ‘Sulphur Shower’?
9. What type of development of sporangia you can find in *Cycas* sp.?
10. Name a vegetative reproductive part of *Cycas* sp.