

**FIRST SEMESTER****COURSE NAME: ARCHEGONIATES****THEORY ASSIGNMENT****COURSE CODE: 242 BOT-2****YEAR: 1442-1443H (2020-2021)****TOTAL MARKS : 5****NAME.....****ACADEMIC NUMBER.....****I. Compare and write any two differences in each column**

Sporophyte of Riccia		Sporophyte of Marchantia
1		
2		

Thallus of Marchantia		Thallus of Anthoceros
1		
2		

Protonema of Funaria		Gametophore of Funaria
1		
2		

Gametophyte of Liverworts(Riccia/Marchantia)		Gametophyte of Moss (Funaria)
1		
2		



Sporophyte of Anthoceros		Sporophyte of Funaria
1		
2		

Bryophytes		Pteridophytes
1		
2		

Lycopodium		Selaginella
1		
2		

Homosporous		Heterosporous
1		
2		

Haplostele		Actinosteale
1		
2		

Cycas Seeds		Pinus seeds
1		
2		



Compare the structural differences of gametophytes and sporophytes of Riccia, Marchantia, Anthoceros and Funaria and complete the Table given below.

Genus Name	Common names	Gametophyte	Sporophyte
Riccia			
Marchantia			
Anthoceros			
Funaria			

II. Answer the following questions in two to three sentences

1. What you mean by Syngonium ?

2. What are the three types of air canals found in Equisetum stem?

3. Write any three economic importances of Pteridophytes?

4. Write any three economic importances of Gymnosperms?



5. What is the name of spore bearing structures in Marsilea? What are the two types of spore found in Marsilia?

6. What you mean by coenosorus condition?

7. What is protostele? What are the different types of protostele?

8. What you mean by coralloid root?

9. What are the reproductive structures found in Pinus tree?

10. What are tree ferns?



11. How many types of leaves are found in Gymnosperms?

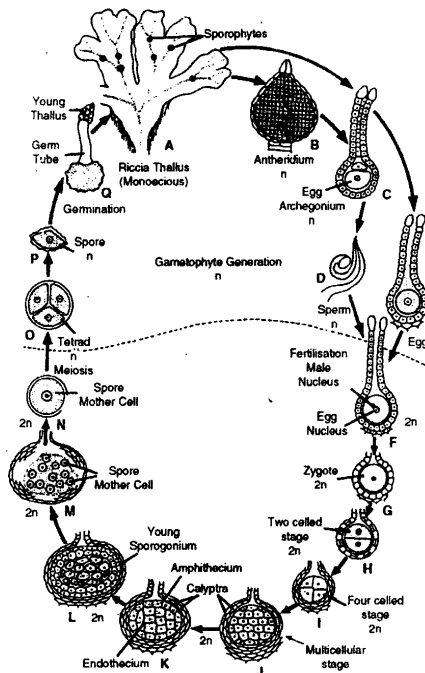
12. Write any three economic importances of Bryophytes?

13. What you mean by alternation of generation?

14. Write the spore bearing structures and type of spores

Name of the Genera of Pteridophytes	Common name	Spore bearing Structures	Type of Spore
Psilotum			
Lycopodium			
Selaginella			
Equisetum			
Marsilea			
Pteridium			

III. Observe the given diagrams, write the name and group comment on their Life cycle?



Name

Group:.....

Comment on Life cycle.....

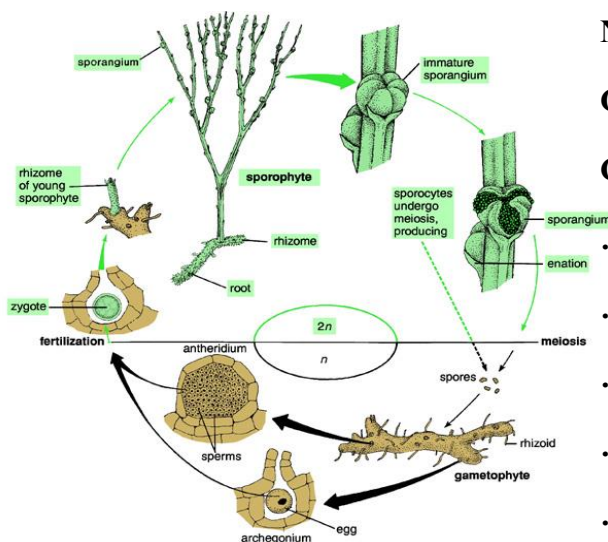
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Name

Group:.....

Comment on Life cycle.....

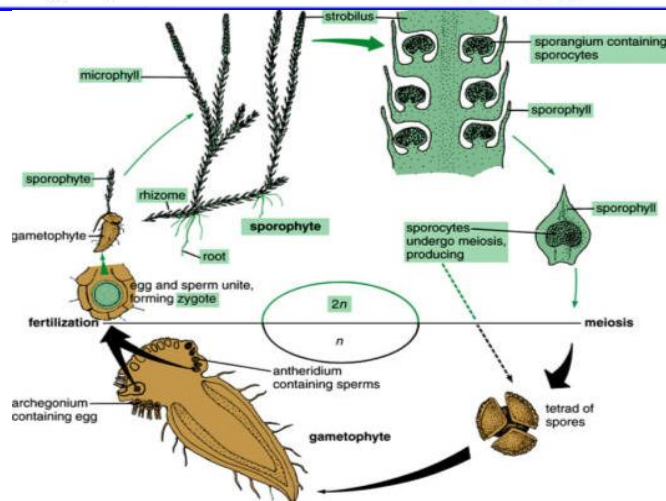
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Name

Group:.....

Comment on Life cycle.....

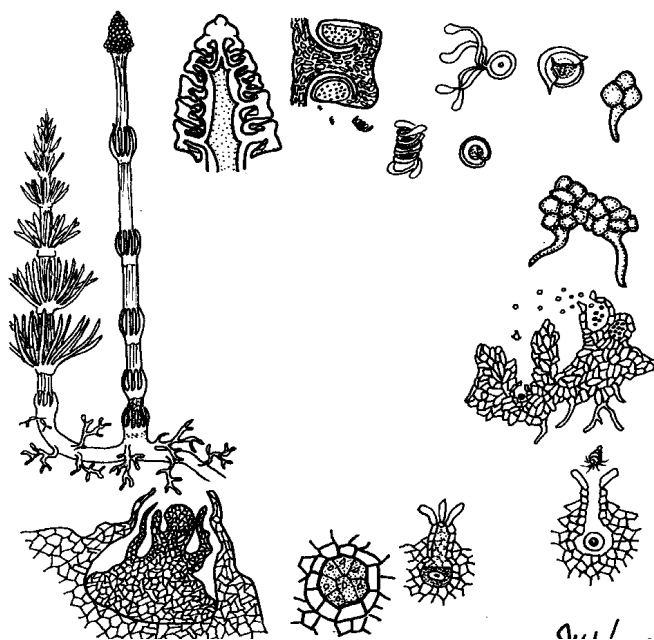
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Name

Group:.....

Comment on Life cycle.....

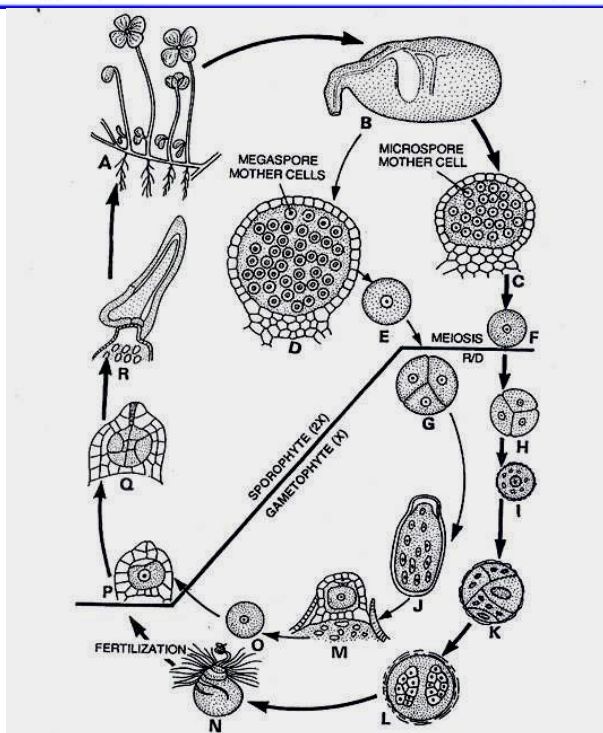
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Name

Group:.....

Comment on Life cycle.....

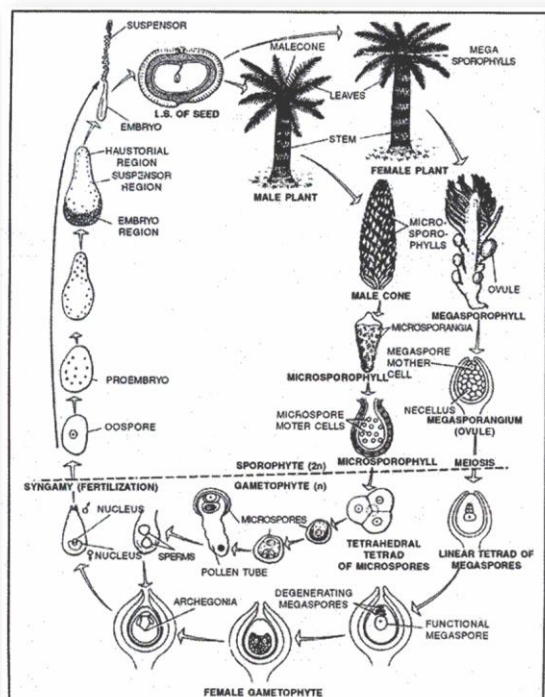
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Name

Group:.....

Comment on Life cycle.....

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