

### Autotrophic Microorganisms

13/01/2020/107

10/10/20

Group 2019/11

1) Classify plants according to Fabius grouping of 1782

III. Final Kingdom

	class
Division Tracheophyta	Phystronia (Algae) Mycotonia (Fungi)
Embryophyta	-Algae (Chlorococci) Musci (Mosses)
Polypodiophyta	Psilidacta (Psilidium) Lycopodiinae (Lycopodium, Selaginella) Equisetinae (Horse-tails) Filicinae (Ferns)
Spermatophyta	Gymnospermae (Gymnosperms) Angiospermae (Angiosperms)

2) How are algae of importance to man?

- They serve as food for man.
- They serve as a thickening agent in ice cream and shampoos.
- They serve as a source of vitamin in man.
- They help in producing drugs to ward off disease in man.
- They contain high concentration of minerals and trace elements.  
E.g. Iodine content to prevent goitre in the body.

3) Describe a unicellular form of algae

- An example of a unicellular form of algae is Chlamydomonas.
- Found in stagnant water usually along with other forms.
- Flagella are the structures for mobility.
- The cell is bounded by a cellulose cell wall, contains organelles e.g

(p. 91)



1) Structure of sporophyte may consist of:
 

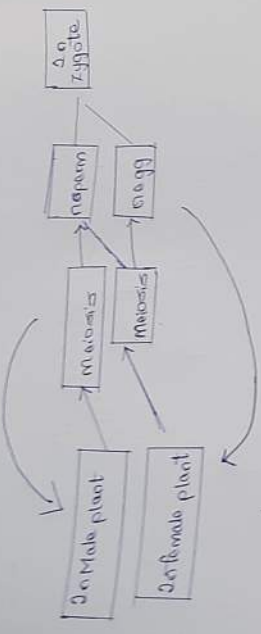
- Wet sporophyte - not associated with a sporangium
- Dry sporophyte - associated with a sporangium
- Wet sporophyte - associated with a sporangium
- Dry sporophyte - associated with a sporangium

2) Reproduction in ferns is asexual.
 

- Sexual reproduction - involves the fusion of male and female gametes.
- Asexual reproduction - involves the fusion of two haploid gametes.

3) Life cycle of ferns is asexual.
 

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LIFE CYCLE OF FERNS