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MATRIC NUMBER: 19/MHS11/009

COURSE: BIO 102

ASSINGMENT

1. Eichler's grouping of 1883

DIVISION	CLASS
Thallophyta	Phycotinae (Algae)
	Mycotinae (Fungi)
Bryophyta	Hepaticae
	(Liverworts)
	Musci (Mosses)
Pteridophyta	Psilotinate (Psilotum)
	Lycopodinae
	(Lycopodium
	Selaginella)
	Equisetinae
	(Horsetails)
	Filicinae (Ferns)

Spermatophyta	Gymnospermae
	(Gymnosperms)
	Angiospermae
	(Angiosperms)

2. Importance of Algae to man

- It serves as food for people
- The red algae provide agar and carrageen used for the preparation of various gels used for scientific research
- It contains high iodine content which prevents goitre
- It serves as thickening agents in ice cream and shampoo
- Alginic acid from the brown algae is used to stabilize emulsions and suspension

3. Unicellular form of Algae

Chlamydomonas represents the unicellular and module forms of green algae.

It's found in stagment water

It has the flagella which enables movement

The cell is bounded by a cellulose cell wall

The stigma is for photoreception

4. REPRODUCTION

Reproduction can either be vegetative (asexual) or sexual.

Vegetative results in the production of daughter cells in which the

amount and quality of genetic material in the nucleus of the mother cell is maintained in the dauther cells.

The amount of genetic material in the mother cell nucleus of n, the daughter cells also have n quantity of genetic material.

Sexual reproduction:

It involves union of sex cell, aggregation of cells in a colony occurs under favourable conditions. These cells pair by their posterior end.

This pairing is said to be isogamous because the pairing cells (gametes) are morphologically identical.

5. The colonial forms Algae

- Pandorina
- Volvox

Pandorina	Volvox
Sexual reproduction is anisogamous	Sexual reproduction is oogamus
Unicellular motile thallus	Multicellular motile thallus
It's a genus of green algae	It's a complex form of pandorina

6. Complex form in the Algae

Fucus

It's a genius of the brown Algae whose species are found on rocks in the intertidal zones of the sea shores. The body of the plant is flattered, dichotomously-branched thallus with a mid rib, a vegetative apex and a multicellular disk with which plant is attached to rock surface. The body has air bladders which is believed to aid the plant to float on the water. It varies in size from a few centimeters to about 2 meters in length.

Sexual reproduction is oogamous, sex cells are produced in conceptacles which have openings (ostoles) on the surface of the thallus.