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**DEPARTMENT: MEDICINE AND SURGERY**

**MATRIC NUMBER: 19/MHS01/058**

**BIO 103 ASSIGNMENT:**

1.) In 1883, A.W. Eichler gave a system of classification for the whole plant kingdom as seen below

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.) Economic importance of algae to man include :

- It is used as drugs to ward off diseases
- It serves as thickening agent in food and shampoo
- They are nutritious because of their high protein content and high concentration of minerals
- They are harvested for and cosmetics in the far east.

e. To stabilize emulsion and suspensions .

3.) Unicellular form of algae :Chlamydomonas represents the unicellular and motile forms of green algae. Algae is found I stagnant water usually along with other forms. It uses flagella for movement (mobility). Algae cell is bounded by a cellulose cell wall , it contains organelles e.g nucleus, mitochondria, stigma (eyespot) , cup -shaped ,chloroplast , pyrenoid etc.

4.) Reproduction in Unicellular forms of algae:

The Unicellular forms of algae commonly reproduce by this simple process , often called binary fission as found in chlamydomonas , synechococcus , Diatoms etc. In this method the vegetative cell divides mitotically into two daughters cells , those finally behave as new individual.

5.) Differences between Volvox and pandorina :

VOLVOX	PANDORINA
They have more cells in the colony	They have less cells in the colony
Shows more complex forms	Shows less complex forms
Sexual reproduction is oogamous	Sexual reproduction is achieved by anisogamous pairing

6.) Focus :

A genus of brown algae whose species are often found on rocks in the inter tidal zone of the sea shores. The body is flattened, dichotomously-

branched thallus with amid rib, a vegetative apex, reproduction apex at maturity and a multicellular disc with which plant is attached to rock surface has air bladders which helps it float in water . Focus species usually reproductive sexually reproduce sexually although are known to degenerate from hold fasts.