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

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| 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;

a.)They are harvested for and cosmetics in the far east.

b.) It is used as drugs to ward off disease.

c.)It serves as thickening agents in food and shampoo.

d.)They are very nutritious because of their hgh protein content and high concentration of minerals

e.)It is used to stabilize emulsions and suspensions.

3.Unicellular Form in the Algae;

Clamydomonas represents the unicellular and motile forms of green algae. Algae is found in 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 daughter cells,those finally behave as new individual.

5.Differences between Volvox and Pandorina

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

6.Fucus;

A genus of brown algae whose species are often found on rocks in the intertidal zones of the sea shores. The body is flattened,dichotomously-branched thallus with amid rib,a vegetative apex,a reproductive apex at maturity and a multicellular dis with which plant is attached to rock surface.It has air bladders which helps it float in water. Fucus species usually reproduce sexually although they are known to degenerate from holdfasts.