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**DEPT: MBBS**

**MATRIC NO: 19/mhs01/120**

1. **Classify plants according to Eichler’s grouping of 1883**

**Division. Class**

**Thallophyta. Algae, Fungi**

**Bryophta. Liverworts, Mosses**

**Pteridophyta. Ferns, Psilotum**

**Spermatophyta. Gymnosperm,**

**Angiosperms**

1. **Importance of Algae to man**

* **It serves as food for people**
* **It serves as a thickening agent for ice cream and shampoo**
* **It serves as drugs to ward off diseases**
* **It contains high iodine content which prevents goitre**

1. **Unicellular form of algae**

**Chlamydomonas represents the unicellular form of algae. It is found in stagnant water. It possesses flagella which aids mobility. It has a nucleus which carries genetic materials of the cell. It has a cellulose cell wall. The stigma is for photo reception.**

1. **Reproduction by Chlamydomonas**

**It carries out both sexual and asexual reproduction. It carries out asexual reproduction by vegetative reproduction which results in the production of daughter cells in which the amount and quality of genetic materials in the nucleus of the mother cell is maintained in the daughter cells . While it carries out sexual reproduction by isogamy which is the opposite mating strains fusion to form a diploid zygote.**

1. **Pandorina. Volvox**

* **It is less complex It is more complex**
* **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 complex form of pandorina**
* **6. Complex form in the Algae Fucus**
* **It’s a genus of the brown Algae whose species are found on rocks in the intertidal zones of the sea shores. The body of the plant is flattened, 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 centimetres to about 2 metres in length.**
* **Sexual reproduction is oogamous, sex cells are produced in conceptacles which have openings (ostioles) on the surface of the thallus.**