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**DEPARTMENT: NURSING**

**MATRIC NO: 19/MHS02/119**

**COURSE CODE: BIO 102**

1. **CLASSIFICATION OF PLANTS ACCORDING TO EICHLER’S GROUPING IN 1883:**

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| **DIVISION** | **CLASS** |
| THALLOPHYTA | Phycotinae (Algae)  Mycotinae (Fungi) |
| BRYOPHYTA | Hepaticae(Liverworts)  Musci (Mosses) |
| PTERIDOPHYTA | Psilotinate (Psilotum)  Lycopodinae(Lycopodinae, Selaginella)  Equisetinae(Horsetails)  Filicinae(Ferns) |
| SPERMATOPHYTA | Gymnospermae (Gymnosperms)  Angiospermae(Angiosperms) |

1. **IMPORTANCE OF ALGAE TO MAN:**

It serves as food for people.

Its contains high iodine content which prevents goiter.

The red algae provide agar and carrageen used for the preparation of various gels used for scientific research.

It serves as a thickening agents in ice cream and shampoo.

1. **A UNICELLULAR FORM OF ALGAE**: Chlamydomonas represents the unicellular and module forms of green algae. It is found in stagnant water and it has flagella which enables to move. The cell is bounded by cellulose wall and the stigma is for Photoreception.
2. ***REPRODUCTION***

Reproduction can either be vegetative (asexual) or sexual. The vegetative reproduction results in daughter cells because the genetic materials contained in the mother cells are maintained in the daughter cells.

While the sexual reproduction involves union of sex cell, aggregation of cells in a colony occurs under favourable conditions and this pairing is ogamous because the gametes are morphologically identical.

**5. The two colonial forms are PANDORINA AND VOLVOX.**

PANDORINA. VOLVOX

|  |  |
| --- | --- |
| Sexual reproduction is anisogamous | Sexual reproduction is Oogamus |
| It's a genius of green algae | It's complex form of pandorina |
| Unicellular motile thallus | Multicellular motile thallus |

**6. A COMPLEX FORM OF ALGAE:**

* **FUCUS:** it’s a genus of the brown algae which are found in rocks in theintertidal 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 plants attach to rock surface. Sexaual reproduction is OOGAMOUS. The body has air bladders which aids the plant to float. It varies in size from a few centimeters to about 2 meters in length.