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**COURSE: BIOLOGY 102**

**DEPARTMENT: NURSING.**

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**Answer**

**Division**

- **Thallopyta**
- **Bryophyta**
- **Pteridophyta**
- **Spermatophyta.**

**Class.**

- **Phycotinae (algae)**  
**Mycotinae (fungi)**
- **Hepaticae (liverworts)**  
**Musci (mosses)**
- **Psilotinate (psilotum)**  
**Lycopodinae (lycopodium, selaginella)**  
**Equisetinae (horse tails)**  
**Filicinae (ferns)**
- **Gymnospermae (gymnosperms)**  
**Angiospermae (angiosperms).**

**Importance's**

- **Algae serves as food for sea animals and fishes.**
- **Algae serves as medicines and minerals.**

- Algae serves are manufacture of iodine.
- Manufacture of soaps and alum.
- It can be use for fertilizers
- manufacture of potash.
- Ornamental uses.

### Unicellular form of algae.

Clamydomonas represents the unicellular and motile forms of green algae found in stagnant water usually along with other forms.

Flagella are the structure of mobility. The cell is bounded by a cellulose cell wall; contains organelles e.g. nucleus, mitochondria, stigma(eye spots), cup headed, chloroplast, paranoid.

### The colonial forms of algae.

- Pandora
- Volvox

Pandorina usually occurs in water blom. The colony consists of 16cells attached to one another. Each cells has many attributes /features in common with chlmaydomonas e.g. nucleus, flagella, stigma etc.

Vegetative reproduction: This is achieved through 4 successive mitotic divisions of each of 16cells in the colony therefore producing 16daughter cells.

Sexual reproduction: This is achieved by angiosperms pairing .when conditions are favorable, the single cells in the colonies assume gametic functions and pairs by their flagella ends.

**Volvox: There are more cells in the colony, number may run into thousands and connect with cytoplasmic strands that run through the cells.**

**Sexually reproduction is Oogamus i.e. the male gamete is motile while female gamete(egg) is not motile.**

**The platelets move to egg colonies where fertilization takes place.colonies of volvox may also be either unisexual/bisexual.**

**6.in such complex plant bodies, cells are differentiated to perform various functions. Plant bodies may be more massive and particulate functions e.g. Reproduction may be localized in definite organs.**

**We will describe a genus of brown algae , fucus.**

**One of the general of the so called rock weed as an example of complex form in the algae.**