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Thallophyta

Bryophyta

Pteridophyta

Spermatophyta

1. Thallophyta

Phycotinae (Algae)

Mycotinae (fungi)

Bryophyta

Hepaticae (liverworts)

Musci (Mosses)

Pteridophyta

Psilotinae, Lycopodiinae, Equisetinae,
Filicinae

Spermatophyta

Gymnospermae, Angiospermae

2. Algae are important ~~to~~ as food for fish.

ii. ~~Seaweed~~ It serves as food for people and livestock, thickening agents in ice cream and shampoo, drugs to ward off diseases.

iii. Algae have high iodine content therefore prevent goitre.

iv. Seaweeds are source of three chemical extracts used extensively in food, pharmaceutical, textile, cosmetic industries

V. Brown algae yield alginic acid which is used to stabilize emulsions and suspensions found in products such as syrup, ice-cream and paint.

VI. Bacteria, fungi and cell structure cultures are commonly grown on agar gels.

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

Flagella are the structures for mobility. The cell is bound by a cellulose cell wall, contains e.g. nucleus, mitochondria, stigma, cup-shaped chloroplast, pyrenoid etc.

4. It can either be by vegetative reproduction or sexual reproduction.

5. Pandanus usually occurs in water bloom. The colony consist of sixteen cells attached to one another. It carries out both sexual and vegetative reproduction.

Volvox shows more complex form than Pandanus. There are more cells in the colony. Not all cells form new colonies but the larger cells at the posterior ends divide to form new colonies.

It carries out only sexual reproduction.

6. Fucus = A genus of brown algae whose species are often found on rocks in the intertidal zones of the sea shores. The plant body is flattened, dichotomously-branched thallus with a mid rib, a vegetative apex, a reproductive apex at maturity and a multicellular disk with which plant is attached to rock surface.