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1. Eichler's grouping of 1883
- a) Thallophytes - Phycobinae (algae), mycobinae (fungi)
 - b) Bryophytes - hyperbata (liverworts), musci (mosses)
 - c) Pteridophytes - ferns, horsebail, Psilobum
 - d) Spermatophytes - angiosperm, gymnosperm

- 2) a. It is used to cure goitre because it contains iodine
b. It serves as thickening agent for ice cream and sherbet
c. Seaweed has 3 chemical which is important to pharmaceutical, textile and cosmetic industries.
d. It is nutritious because it has high protein content

3) Chlamydomonas represents the unicellular and mobile forms of green algae, found in stagnant water, flagella are the structures for mobility. The cell is bounded by a cellulose cell wall, contains organelles e.g nucleus, mitochondria, stigma (eyespot), chloroplast etc

4.) It reproduces both sexually and asexually (vegetative reproduction).

Vegetative reproduction: The Chlamydomonas loses its flagella. It undergoes mitotic division, the nuclei divide, making the cell to elongate which makes the cytoplasm divide forming 2 daughter cells (zoospores).

Sexual reproduction: It occurs under unfavourable conditions. The sexual reproduction is done through a process called isogamy which is the process where by two daughter cells form gametes that have two mating strings which fuse together. It undergoes dormancy for some time, then later it undergoes meiosis which lead to the production of 4 haploid daughter cells.

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6. Volvox is more complex than Pandorina, not all cells in ~~Pandorina~~^{Volvox} undergo reproduction but all cells in Pandorina undergo reproduction

5. Volvox	Pandorina
i. Not all cells undergo reproduction	All cells undergo reproduction.
ii. Sexual reproduction is oogamous	Sexual reproduction is anisogamous
iii. It is only bisexual	It can be bisexual or unisexual
iv. The male gamete is motile while the female gamete is not motile	Both the male and female gametes are motile.

6. The complex form of algae is the Fucus, it is found on rock, the body has air bladders which help plants to float on water. The plant body is flattened. They also vary in size from a few centimetres to about 2 metres in length. They also vary in terms of whether the sex cells are found in the same sexual chamber or in different sexual chambers on different plant bodies. Sexual reproduction is oogamous.