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PHARMACY BIO 102 ASSIGNMENT.

1.Asystem of plant taxonomy, the Eichler system was the first phylogenic (phyletic) or evolutionary system.

He gave system of classification for the whole plant kingdom. Eichler classified the plant kingdom into two sub-kingdom. They are Cryptogamae and Phanerogamae. A] Cyptogamae are flowerless and seedless plants. They are simple and flowerless plants like

algae, mosses and ferns which do not produce flowers, fruits and seeds. Cryptogams are considered as lower plants.

B] Phanerogamae are seed bearing plants. So, they are also known as spermatophytes. They are higher plants. The plant body is differentiated into roots, stems and leaves with well developed vascular system. Examples are angiosperms and gymnosperms.

- 2.Importanceofalgaetoman.
- A) Direct use of algae as food for man.
- B) As a source of agar in the production of ice cream, jellies, desserts etc.
- C) Medicines and minerals
- D) Manufacture of iodine
- E) Alginic acid, align and mannitol which is used in the production of dyes, button sand combs
- F) Manufacture of soaps and alums
- G) Used as fertilizer
- H) Ornamental uses
- 3.Unicellularform of algae are also called acellular algae as they function as complete living organisms. Unicellular forms are common in all the groups of algae except Rhodophyceae, Phaeophycean and Charophyceae. The unicells may be motile or non-motile.

4.Cell division or fission is the simplest method of reproduction for the unicellular forms of algae it is often called binary fission as found in Chlamydomonas. In this method the two vegetative cells divide mitotically into two daughters' cells, those finally divide and form new individuals. There reproduction is asexual.

5.DifferencebetweenVolvoxandSynura VOLVOXSYNURA

- A. Reproduction is both sexual and asexual.
- A. Reproduction is sexual.
- B. Spherical colonies of up to 50,000 cells.
- B. Few cells in colonies.

6.Spirogyra is a filamentous charophyte green algae of the order of zypementales, named for the helical or spinal arrangement of the chloroplasts that is characteristics of the genus. It is commonly found in fresh water habitats, and there are more than 400 species of spirogyra in the world.