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COURSE: BIO 102

DEPARTMENT: PHARMACY

MATRIC NUMBER: 19/MHS11/106

ASSIGNMENT

1. A system of plant taxonomy, the Eichler system was the first phylogenic (phyletic) or evolutionary system. He gave system of classification for the whole plantkingdom. Eichler classified the plantkingdom into two sub-kingdom. They are Cryptogamae and Phanerogamae. A] Cryptogamae are flowerless and seedless plants. They are simple and flowerless plants like algae, mosses and ferns which do not produce flowers, fruits and seeds. Cryptogamae considered as lowerplants.

B] Phanerogamae are seed bearing plants. So they are also known as permatophytes. They are

higherplants. The plant body is differentiated into roots, stem and leaves with well developed vascular system. Examples are angiosperms and gymnosperms.

2. Importance of algae to man.

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, buttons and combs.

F) Manufacture of soaps and alums.

G) Used as fertilizer.

H) Ornamental uses.

3. Unicellular form of algae are also called a cellular algae as they function as complete living organisms. Unicellular forms are common in all the groups of algae except Rhydophyceae, Phyaeophycae and Charophycae. 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 chlamydominas. In this method the two vegetative cells divides mitotically into two daughter cells, those finally divide a new individuals. There reproduction is asexual.

5. Difference between Volvox and Synura

VOLVOX SYNURA

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 characteristic of the genus. It is commonly found in freshwater habitats, and there are more than 400 species of spirogyra in the world.