NAME: EZEH SAMUEL CHIDERA

COURSE:BIO102

DEPARTMENT:PHARMACY

MATRIC NUMBER:19/MHS11/057

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 plant kingdom. Eichler

classified the plant kingdom into two sub-kingdom.They are Cryptogram 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] Phanerogomme are seed bearing plants. So they are also known as spermatophytes.They are

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

2. Importance of algaetoman.

A) Direct use of algae as food for man

B) As a source of agar in then 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, butons and combs

F) Manufacture of soaps and alums

G) Used as fertilizer

H) Ornamental uses

3.Unicellular form 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 Rhydophyceae,

Phyaeophycaea 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 chlamydominas. In this method the two vegetative cells divides mitotically into two daughter cells, those finally divide an new individuals.

There reproduction is asexual.

5.Difference betweenVolvox 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, namedfor the helical or spinal arrangement of the chloroplasts that is characteristic of the genus.

It is commonly found in fresh water habitats, and there are more than 400 species of sparogyrain the world.