NAMF: SADARE OI UWAFAYOKEMI DEPARTMENT: DENTISTRY MATRIC NO: 19/MHS09/022 COURSE: BIO 102 **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 subkingdom. 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

considered as lower plants. B] Phanerogamme 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 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

seeds. Cryptogams are

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

Unicellular forms are

Phyaeophycaea and

complete living organisms.

common in all the groups of

algae except Rhydophyceae,

production of dyes, buttons

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 between Volvox and Synura VOLVOX

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

SYNURA A. Reproduction is

6. Spirogyra is a filamentous charophyte green algae of the order of Zygementales, named for the helical or spiral 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