*NAME....... OMONKHUA WINNER ONOMENASIKE*

*COURSE Bio102*

*DEPARTMENT PHARMACY*

*MATRICNUMBER 19/MHS11/111*

*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 classifiedtheplantkingdomintotwosub-kingdom.TheyareCryptogamaeandPhanerogamae. 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 lowerplants.*

*B]Phanerogammeareseedbearingplants.Sotheyarealsoknownasspermatophytes.They* are

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

1. *Importance of algae toman.*
2. *Directuseofalgaeasfoodforman*
3. *Asasourceofagarintheproductionoficecream,jellies,dessertsetc.*
4. *Medicines andminerals*
5. *Manufacture ofiodine*
6. *Alginicacid,alignandmannitolwhichisusedintheproductionofdyes,buttonsandcombs*
7. *Manufacture of soaps andalums*
8. *Usedasfertilizer*
9. *Ornamentaluses*
10. *Unicellularformofalgaearealsocalledacellularalgaeastheyfunctionascompleteliving organisms.UnicellularformsarecommoninallthegroupsofalgaeexceptRhydophyceae, PhyaeophycaeaandCharophyceae.Theunicellsmaybemotileornon-motile.*
11. *Celldivisionorfissionisthesimplestmethodofreproductionfortheunicellularformsof algaeit*

*isoftencalledbinaryfissionasfoundinchlamydominas.Inthismethodthetwovegetativecells* divides mitotically into two daughter cells, those finally divide an new individuals. There reproduction isasexual.

1. *DifferencebetweenVolvoxandSynura VOLVOXSYNURA*

*A. Reproduction is both sexual and* asexual

1. *Reproduction issexual*
2. *Sphericalcoloniesofupto50,000 cells.*

*B.Few cells in colonies*

1. *Spirogyraisafilamentouscharophytegreenalgaeoftheorderofzypementales,namedfor thehelicalorspinalarrangementofthechloroplaststhatischaracteristicofthegenus.Itis commonlyfoundinfreshwaterhabitats,andtherearemorethan400speciesofsparogyrain theworld.*