NAME....... ODUSANYA FOLAJIMI VICTOR

COURSE.......BIO 102

DEPARTMENT........PHARMACY

MATRIC NUMBER.....19/MHS11/099

ASSIGNMENT

1.Asystemofplanttaxonomy,theEichlersystemwasthefirstphylogenic(phyletic)or evolutionarysystem.Hegavesystemofclassificationforthewholeplantkingdom.Eichler classifiedtheplantkingdomintotwosub-kingdom.TheyareCryptogamaeandPhanerogamae. A]Cyptogamaeareflowerlessandseedlessplants.Theyaresimpleandflowerlessplantslike algae,mossesandfernswhichdonotproduceflowers,fruitsandseeds.Cryptogamsare consideredaslowerplants.

B]Phanerogammeareseedbearingplants.Sotheyarealsoknownasspermatophytes.They are

higherplants.Theplantbodyisdifferentiatedintoroots,stemandleaveswithwelldeveloped vascularsystem.Examplesareangiospermsandgymnosperms.

2.Importanceofalgaetoman.

A)Directuseofalgaeasfoodforman

B)Asasourceofagarintheproductionoficecream,jellies,dessertsetc.

C)Medicinesandminerals

D)Manufactureofiodine

E)Alginicacid,alignandmannitolwhichisusedintheproductionofdyes,buttonsandcombs

F)Manufactureofsoapsandalums

G)Usedasfertilizer

H)Ornamentaluses

3.Unicellularformofalgaearealsocalledacellularalgaeastheyfunctionascompleteliving organisms.UnicellularformsarecommoninallthegroupsofalgaeexceptRhydophyceae, PhyaeophycaeaandCharophyceae.Theunicellsmaybemotileornon-motile.

4.Celldivisionorfissionisthesimplestmethodofreproductionfortheunicellularformsof algaeit

isoftencalledbinaryfissionasfoundinchlamydominas.Inthismethodthetwovegetativecells dividesmitoticallyintotwodaughtercells,thosefinallydivideannewindividuals.There reproductionisasexual.

5.DifferencebetweenVolvoxandSynura

VOLVOXSYNURA

A.Reproductionisbothsexualand asexual

A.Reproductionissexual

B.Sphericalcoloniesofupto50,000 cells.

B.Fewcellsincolonies

6.Spirogyraisafilamentouscharophytegreenalgaeoftheorderofzypementales,namedfor thehelicalorspinalarrangementofthechloroplaststhatischaracteristicofthegenus.Itis commonlyfoundinfreshwaterhabitats,andtherearemorethan400speciesofsparogyrain theworld.