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DEPARTMENT: PHARMACY

MATRIC NUMBER: 19/MHS11/128

COURSE CODE: BIO102.

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