

BIO 102 ASSIGNMENT

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DEP: MHS\NURSING

1.classify plants according to Eichers grouping of 1883

In 1883, A. W. Eciher gave a system of classification for the whole plant kingdom. He classified the plant kingdom into two sub kingdom. They are : Cryptogamaes

Cryptogamae: kryptos =concealed, gamos =marriage

The cryptogams are flowerless and seedless plants. They are simple plants like algae, mosses, and ferns which do not produce flowers, fruits, and seeds. Cryptogams are considered as low plants.

*phanerogamae:

The phanerogams are seed bearing plants, so they are also known as spermatophytes (sperma =seed phyton =plants). They are higher plants. The plants body is differentiated into roots, stems, and leaves with well developed vascular system.

2.how are algae of importance to man

a. The marine algae are rich in iodine and several other important Minerals, this is an addition to making organic molecules. Algae produces oxygen as a by product of photosynthesis.

b. In the production of ice cream, jellies, deserts etc.

c. used as fertilizer.

d. ornamental use.

e. medicine and mineral.

3.describe a unicellular form of algae.

Unicellular forms of algae are also called acellular algae as they function as complete living organisms. Unicellular forms are common in all groups of algae except Rhodophyceae, phaeophyceae and Charophyceae. They are plants like antotrophs and contains chlorophyll. They include groups that have both multicellular and unicellular species. Euglenophyta, flagellated, mostly unicellular algae that occurs often in fresh water.

4.how does unicellular organism carry out its respiration

It carries out reproduction through binary fission as found in chlamydomonas. In this method the two vegetative cell divides mitotically into two daughter cells, those finally divides into a new individual. Their reproduction is asexual.

5.differentiate between the two types of colonial algae

VOLVOX AND SYNURA

For volvox:

A. Reproduction is both asexual and sexual

B. Spherical colonies are up to 50,000 cells.

For synura:

A. Reproduction is sexual.

B. Few cells in colonies.

6. Describe a named complex form of algae

The largest and the most complex form of algae are the marine algae called seaweeds, while the most complex fresh water, forms are the charophyta, a division of green algae. Which includes for example, spirogyra and stonewort. No definition of algae is generally accepted.