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**MATRIC NO: 19/MHS11/003**

**BIO 102 ASSIGNMENT**

**DEPARTMENT: PHARMACY**

1 A system of plant taxonomy, the Elchier system was the first phylogenetic or evolutionary system. He gave the system of classification for the entire plant kingdom. Elchier classified the plant kingdom into 2 sub kingdoms. They are Cryptogamae and phanearo gamae.

A)Cryptogamae are simple flowerless plants like algae, mosses and ferns which do not produce flowers, leaves and seeds. They are considered as lower plants.

B)phanearo Gamae are seed bearing plants so they are known as spermatophytes. They are higher plants, their body is divided into root, stem and leaves with well developed vascular system e.g gymnosperm and angiosperm.

**2**

A)Direct use of algae as food to man

B)Used in manufacturing iodine

C)source of medicine and minerals

D)Used to manufacture fertilizers

E)Ornamental uses

F)manufacture of detergent

**3**. Unicellular forms of algae is also called cellular algae as they function as complete living organism. Unicellular algae is common in all groups of algae except Rhydophaceae, phyaeophycae, and charophyceae. The unicells may be mobile or non motile.

**4**.Cell division or fission is the simplest mode of reproduction for unicellular forms of algae. In this method the two vegetative cells divide into 2 daughter cells, which finally divide into 2 individuals.

**5.**

 A)Volvox practices both sexual and asexual reproduction while Synura practice sexual reproduction only.

B)volvox has spherical colonies with up to 50,000 cells while Synura has few cells in colony.

**6.** Spirogyra is a filamentous charophyte green algae of the order of zypementales. Got its name from the spiral arrangement of the chloroplasts. It is commonly found in fresh water habitats.