OGUNGBANGBE OLUWATOSIN , 100L, 19/MHS01/299 .

1. Eichler’s method of grouping plants of 1883

\*Division Bryophyta – liverworts ,mosses.

\*Division Thallophyta- algae , fungi.

\*Division pteridophyta- psilotum,lycopodium,equitilae,filitinae

\*Division spermatophyta- angiosperm , gymnosperm.

2. importance of algae, it is used as a thickening agent in the ice cream and shampoo industry. It is nutritious and help toward out diseases. It is rich in trace elements. It is has high iodine and serves as food to fishes that we eat.

3. the chlamydonomas is the motile and unicellular form of algae .it has eyespot for photoreception. It has the pyrenoid where sugar and food are stored and processed into starch. Its mitosis occur in vegetative reproduction.

4. when the chlamydonomas wants to reproduce it looses its flagella and undergoes mitosis. Producing two daughter cells known as ZOOSPORES. Sexual reproduction – some environmental condition can cause chlamydonomas to mate. Rather than forming spores the form gametes. The gamete are called MATING STRAINS. The male and female mating strains will fuse together and this process is called ISOGAMY to form a diploid zygote. The zygote has two sets of chromosomes ,the zygote closes itself when conditions are not favourable. This is a stage of dormancy. After this stage ,the zygote continues division process and undergoes meiosis and divide into four daughter cells.

5.PANDORINA: Pandorina is found in water blue and it has 16 cells attached to one another by citoplasmic strands. The have many organelles in common with chlamydomonas. Their vegetative production is achieved between four successive mitotic division. The 16 cells undergoes mitosis , producing 16 daughter colonies of their own. Pandorina is isogamous paring by flagellated end. They are unisexual and bisexual.

VOLVOX:It is the green colonial form of algae. It is more complex than pandorina. Their runs in thousands. Not all cells undergo fertilization,the bigger cells called GONIDIA. It is evolutionary more advanced than the pandorina, the sexual reproduction is OOGAMUS. The male cells is motile and the sperms are formed from the sperm platelets which are contain a lot of sperms. After the fertilization takes place the zygote is formed and the zygote undergoes division.

6. Fucus is the complex form of algae. It is normally found on rocks in the intertidal zones of sea shores. It’s body is flattened, dichotomously- branched thallus with a mid rib, a vegetative and a multicellular disk with which plant is attached to rock surface. Air bladders for plants to float on water. Sexual reproduction is OOGAMOUS, sex cells are produced in conceptacles which have openings(ostioles) on the surface of the thallus. The conceptales undergoes meiosis.