

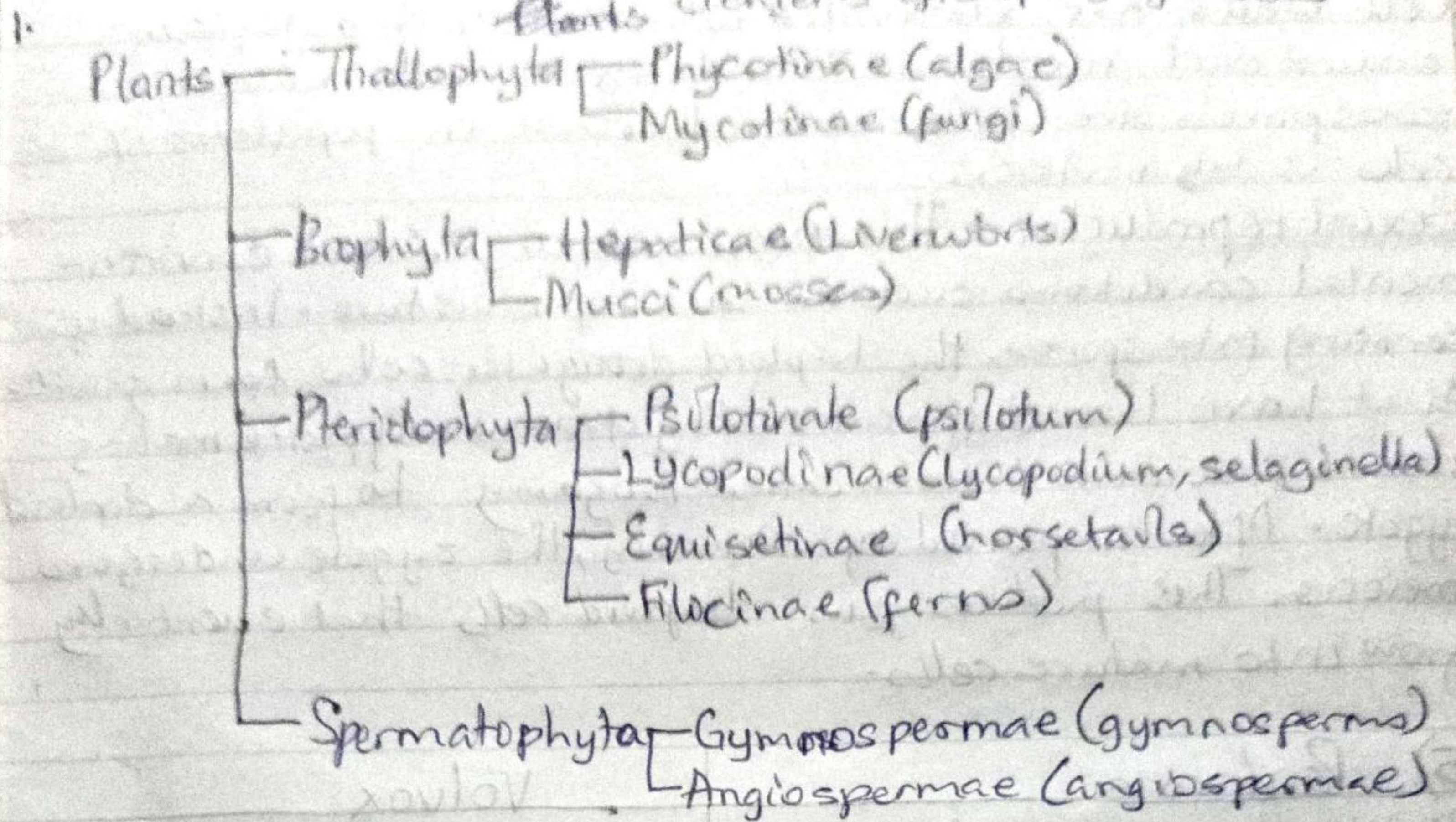
RUFUS FORTUNE CHINAIZEE

19/MTB01/388

BIO 102

MHS/MBS

Plants Eichler's grouping of 1883



2. - Have been used in Asia countries to cure or prevent illnesses such as cough, goiter and so on.
- Diatoms are used in forensic medicine to determine if the cause of a death is drowning.
 - They have been surveyed for anti-cancer compounds
 - Used as indicators of environmental problems in aquatic ecosystem.

3. Chlamydomonas

It is a unicellular form of algae usually found in stagnant water. ~~cell~~ A cell is bounded by a cellulose cell wall. Presence of a cup-shaped chloroplast.

It has a pyrenoid for storage of starch. Presence of two ~~flag~~ flagella for movement. It has contractile vacuole for removal of excess water. It has an eyes pt as well as a nucleus

4. Chlamydomonas can reproduce sexually or asexually. Asexual reproduction: A cell about to divide loses its flagella. The cell undergoes mitosis leading to two nuclei.

★ Cell walls are elaborated which delimit cytoplasm around each nucleus. Two daughter cells known as zoospores are released. Increase in population of cells is by mitosis.

★ Sexual reproduction: This occurs during certain environmental conditions such as lack of moisture. Instead of forming into spores, the haploid daughter cells form gametes that have two different mating strains. Opposite mating strains fuse in a process called isogamy to form a diploid zygote. After a period of dormancy, the zygote undergoes meiosis. This produces four haploid cells that eventually grow into mature cells.

5) <u>Pandersonia</u>	<u>Volvox</u>
All cells form new colonies	Not all cells form new colonies
Has only 16 cells in a colony	Has more cells in a colony up to a thousand
Shows a less complex form	Shows a more complex form

6) Fucus sp.
 A brown algae found on rocks by sea shores
 The plant body is flattened
 Has a dichotomously-branched thallus with a midrib, a vegetative apex, a reproductive apex and a multicellular disk. Plant body also has air bladders for floatation. Sexual reproduction is oogamous.