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19/MHS01/03.

Bio 102.

General biology II

Assignment.

1. They are important to the entire ecosystem.
2. They decompose decay organic matters.
3. It is useful in industries for fermentation [yeast].
4. They are useful to human health [mushroom].

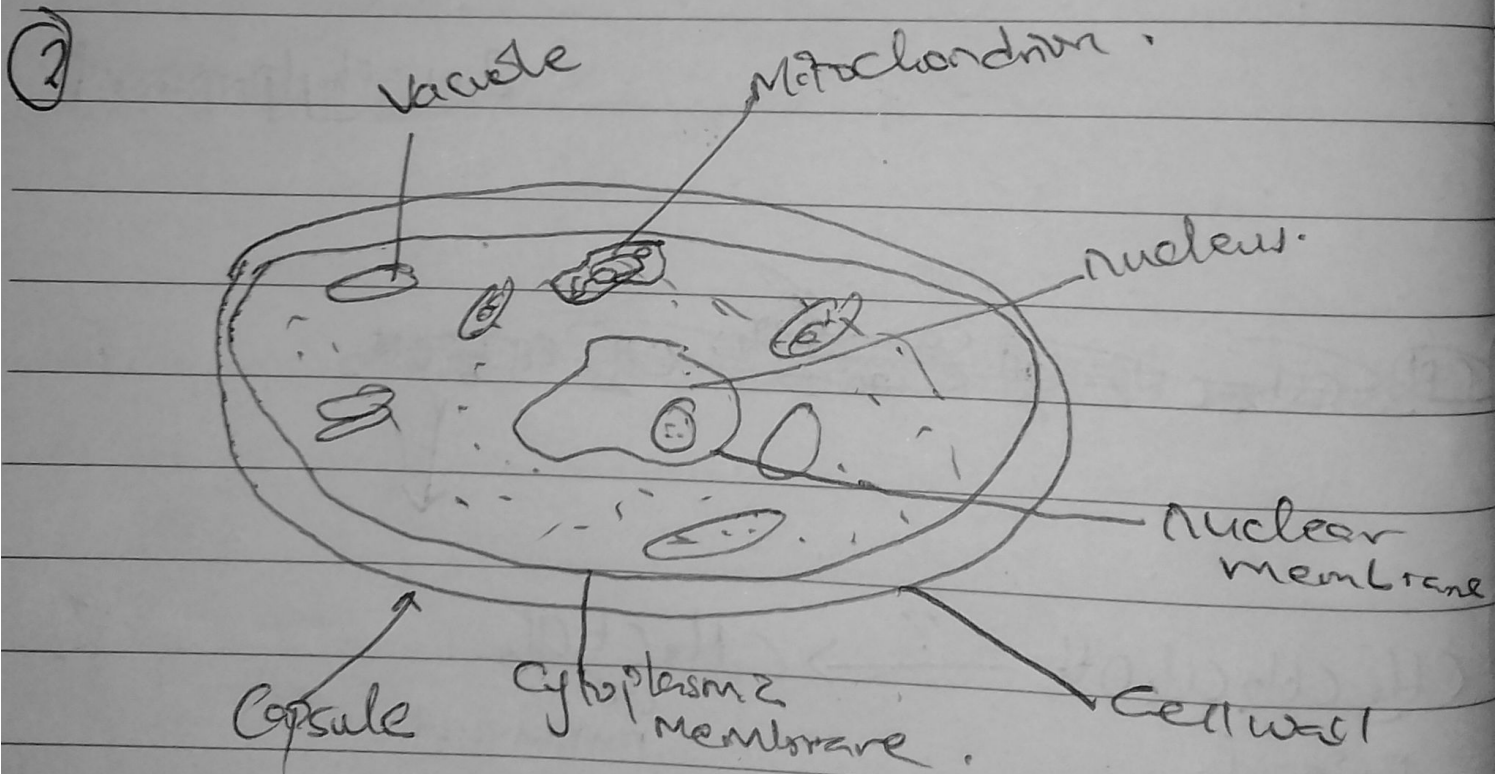


Diagram of a unicellular fungi (yeast).

③ Sexual reproduction occurs when two mating types of hyphae grow in the same medium. Chemical interaction between the two mating types of hyphae induces growth perpendicular to the hyphae in opposite directions. These growths are delimited by a wall such that many nuclei are isolated in what is called a gametangium.

The two gametangia fuse [plasmogamy] and a zygote is formed which may undergo prolonged dormancy or resting stage. ~~The~~ The nuclei in the zygote fuse in twos and undergo meiosis independently.

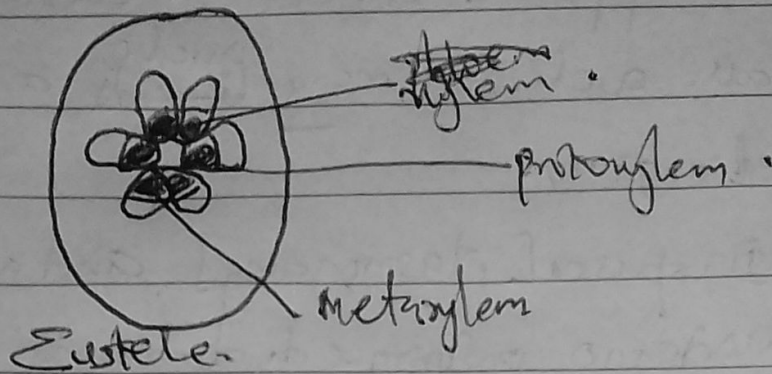
The zygote germinates under favorable conditions to produce a fruiting which at maturity liberates the haploid spores.

④ (a) They have definite structures for water and nutrient absorption from the soil. Therefore, the plant is divided into two parts, a aerial portion and a subterranean portion.

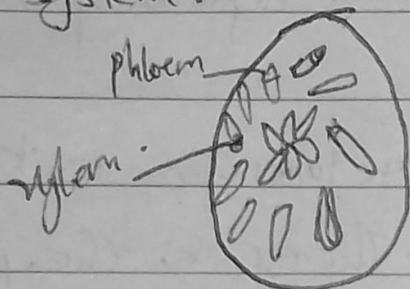
(b) The aerial portion being exposed to the atmosphere demands some modifications that prevent excessive loss of water through the body surface.

(c) Some other modifications that permit elimination of excess water from the plant body and not only exchange of gases between the internal parts of the plant and the atmosphere therefore opening ~~are~~ are available on the aerial parts of the plant.

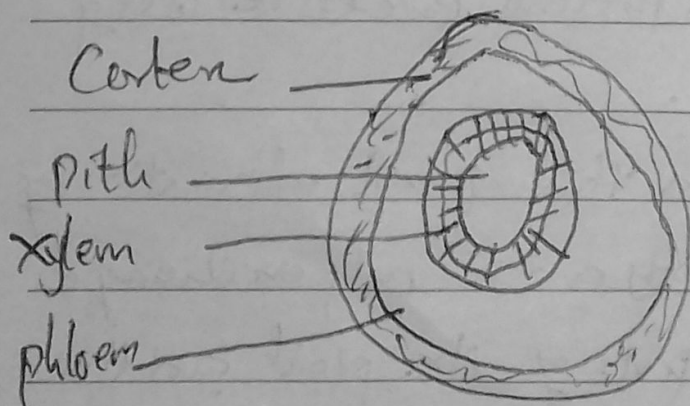
⑤ (a) **Eustele:** - The vascular bundles are discrete, concentric collateral bundles of xylem and phloem. It is found in herbaceous dicotyledonous plants.



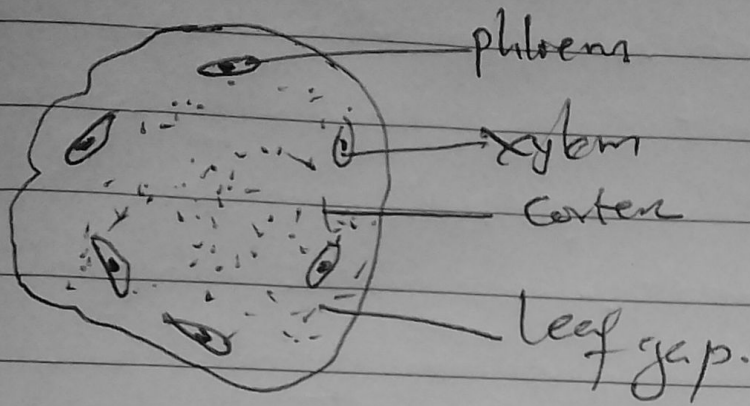
⑥ (b) **Atactostele:** - The vascular bundles are scattered. The vascular supply to leaves is also not worthy element of the vascular system.



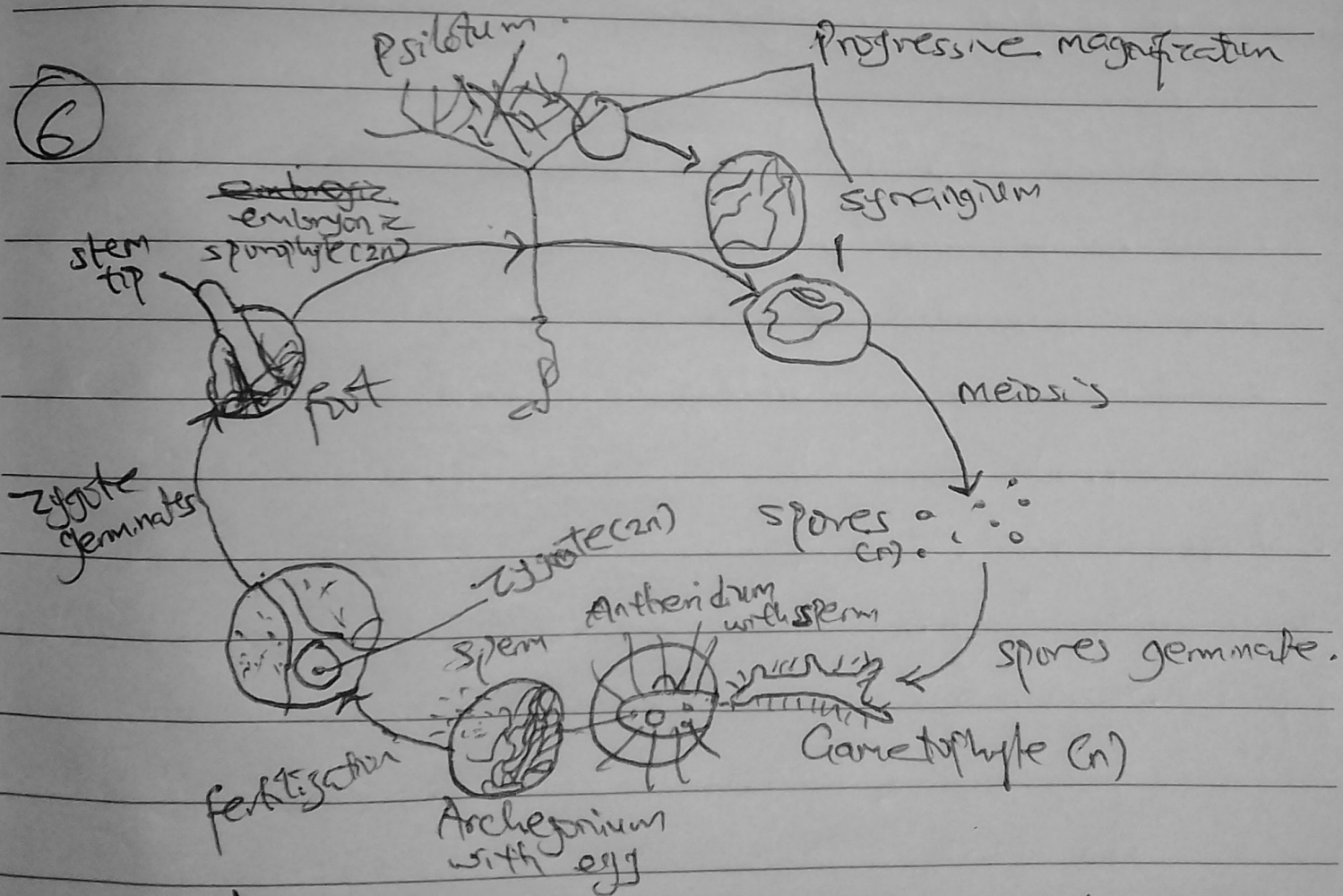
⑦ (c) **Siphonostele:** - The stele is a cylinder enclosing a pith parenchymatous pith.



④ Dicotylete: It consists of vascular strands interconnected in such a manner that many given cross section of stem, several distinct bundles can be observed.



⑥



A real life cycle of primitive vascular plant.