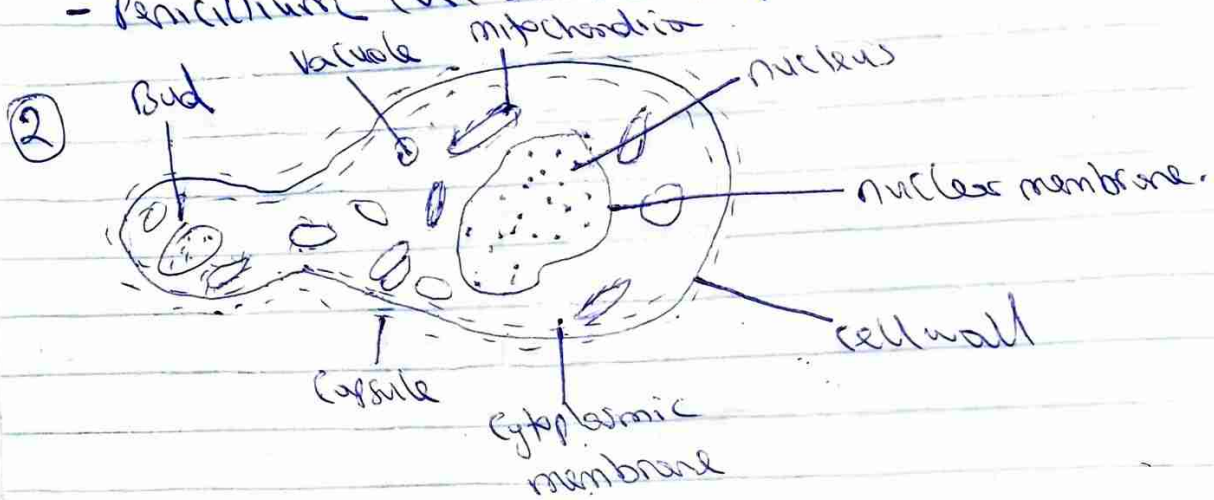


Oluwole-ojo Oluwoyemi

19/MH501/342

① - Fungi are responsible for the mediation of decay of organic matter.

- Fungi e.g yeast are important in the food industry
- *Penicillium* can be used to produce antibiotics



③ - sexual reproduction occurs when two mating types of hyphae grow in the same medium.

- Chemical interaction in the two mating types induces growth perpendicular to the hyphae.

- The two gametangia fuse and a zygote is formed which undergoes dormancy.

- The nuclei in the zygote fuse into two and undergo meiosis independently.

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

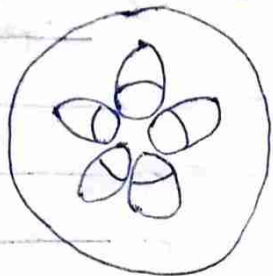
④ (i) Body is divided into two, - a subterranean portion is the rhizoid and not the true root and the aerial portion.

(ii) The aerial portion exposed to the atmosphere demands modifications that prevents excessive loss of water.

(iii) Fertilised egg develops into an embryo.

5 (a) eusteles.

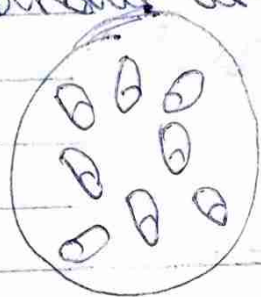
The vascular bundles are discrete, concentric collateral bundles of xylem and phloem.



eusteles.

(b) atactosteles:

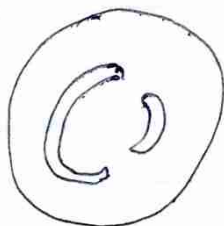
The vascular bundles are scattered



atactosteles

(c) siphonostele

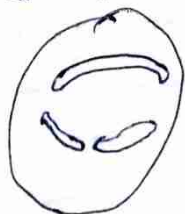
The stele is a cylinder enclosing a parenchymatous pith.



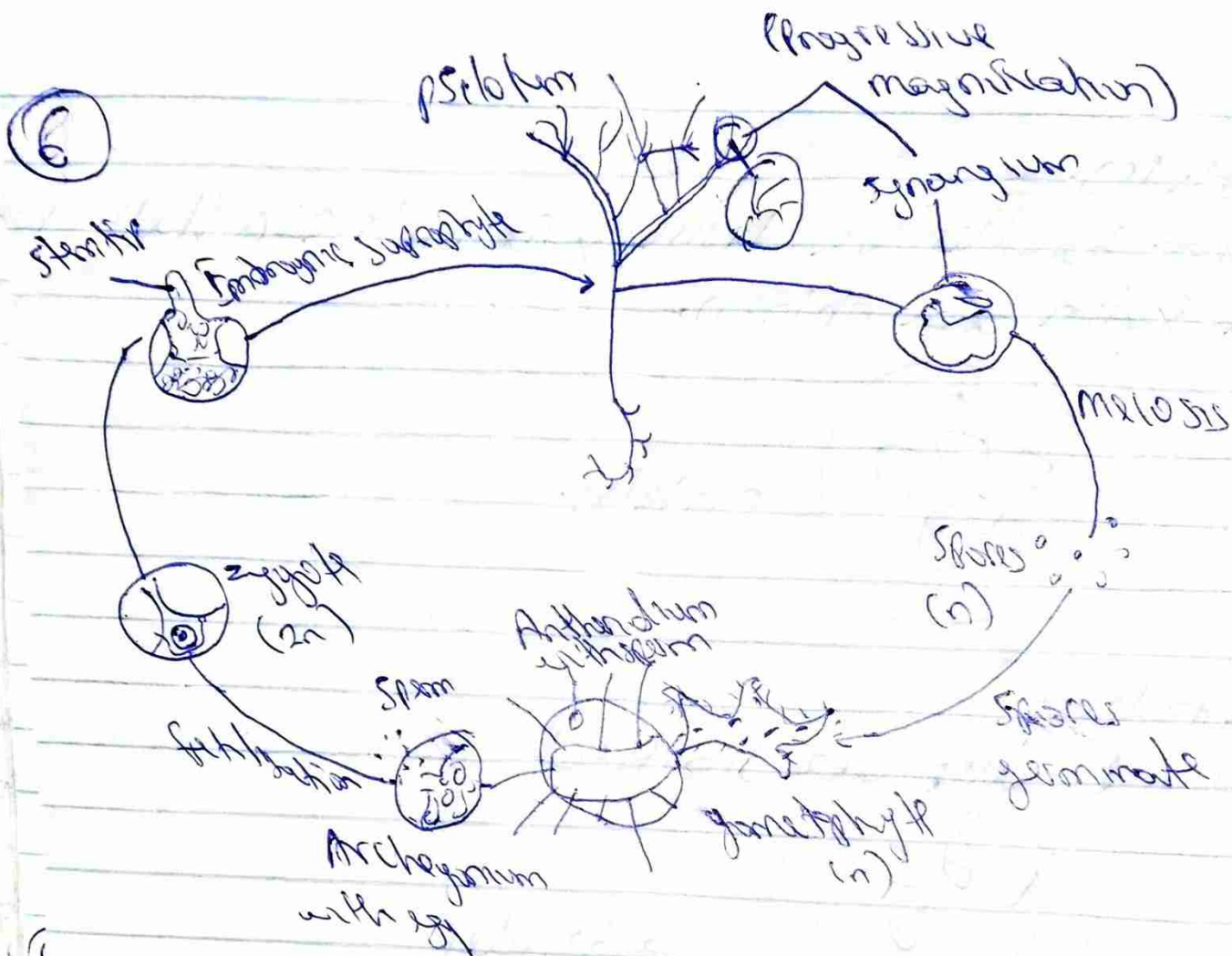
siphonostele.

(d) dictyostele

Vascular supply to leaves is associated with leaf gaps and the conducting cylinder is a dissected one.



dictyostele



LIFE CYCLE OF A PSILOTUM