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DEPT: MBBS; 100L

COURSE: Bio 102

1. Fungi are eaten by humans e.g. mushroom, making them very important to the food industry.
- ii Many fungi species mediate the spoilage of wood, food, cloth and paper.
- iii Some fungi are parasites to some certain horrible obnoxious pests to man.

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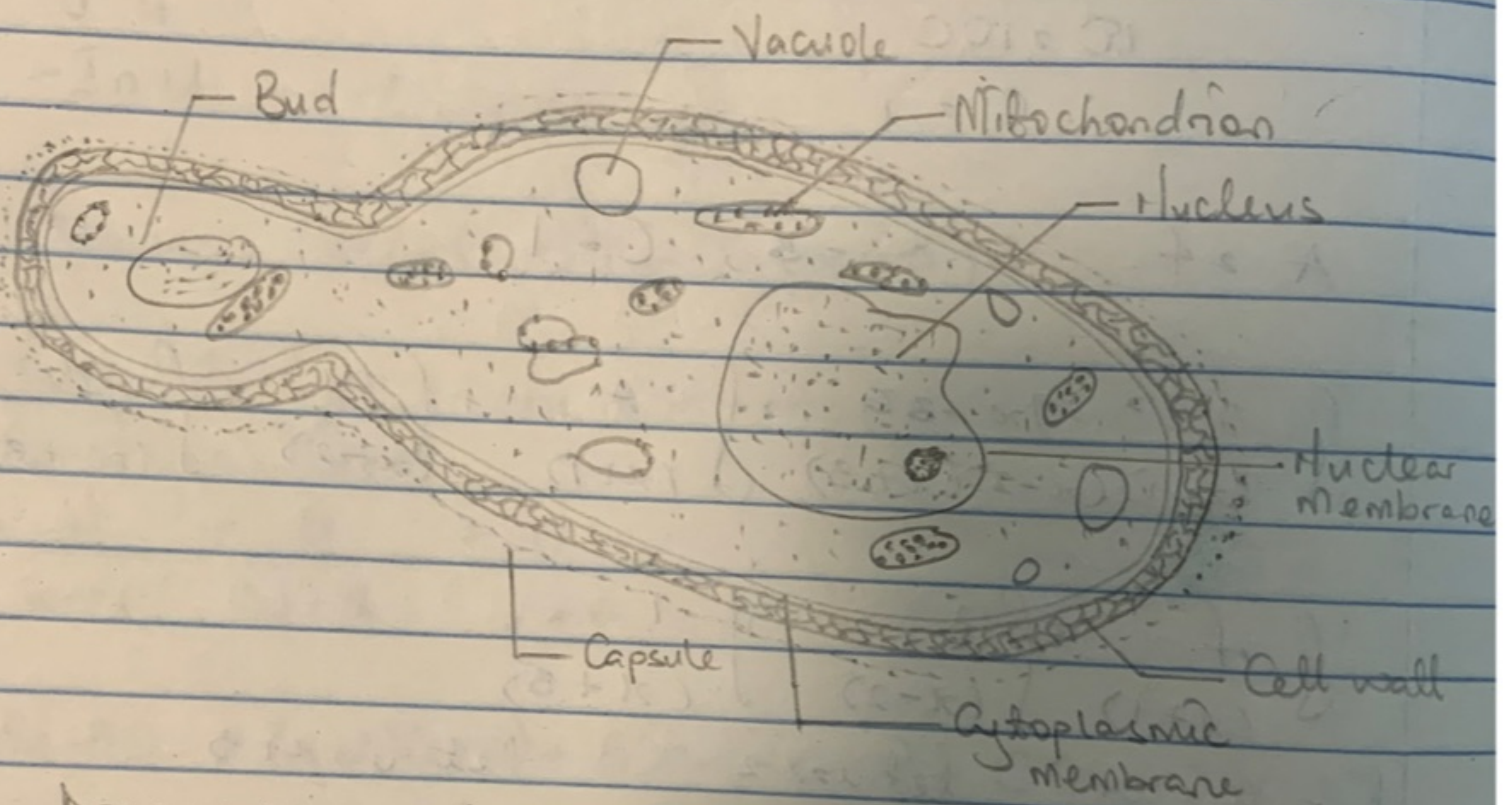


DIAGRAM OF UNICELLULAR FUNGUS (YEAST)

3. i) Two mating types of hyphae grow on the same medium.
- ii) Then a chemical interaction between them causes growth perpendicular to the hyphae in opposite directions, so they can meet with one another.
- iii) The growths are delimited by a wall just so the nuclei are isolated in differentiated sex organs called gametangia.
- iv) The gametangia fuse in a process called plasmogamy and together they form a zygote which may undergo dormancy for a period.

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✓ The nuclei in the zygote fuse in twos and undergo meiosis independently, it then moves on to germinating under favorable conditions so as to liberate haploid spores at maturity through the production of a fruiting.

4 i] They have definite structures for water and nutrient absorption from the soil, therefore the plant body is divided into two; the aerial portion and the subterranean portion

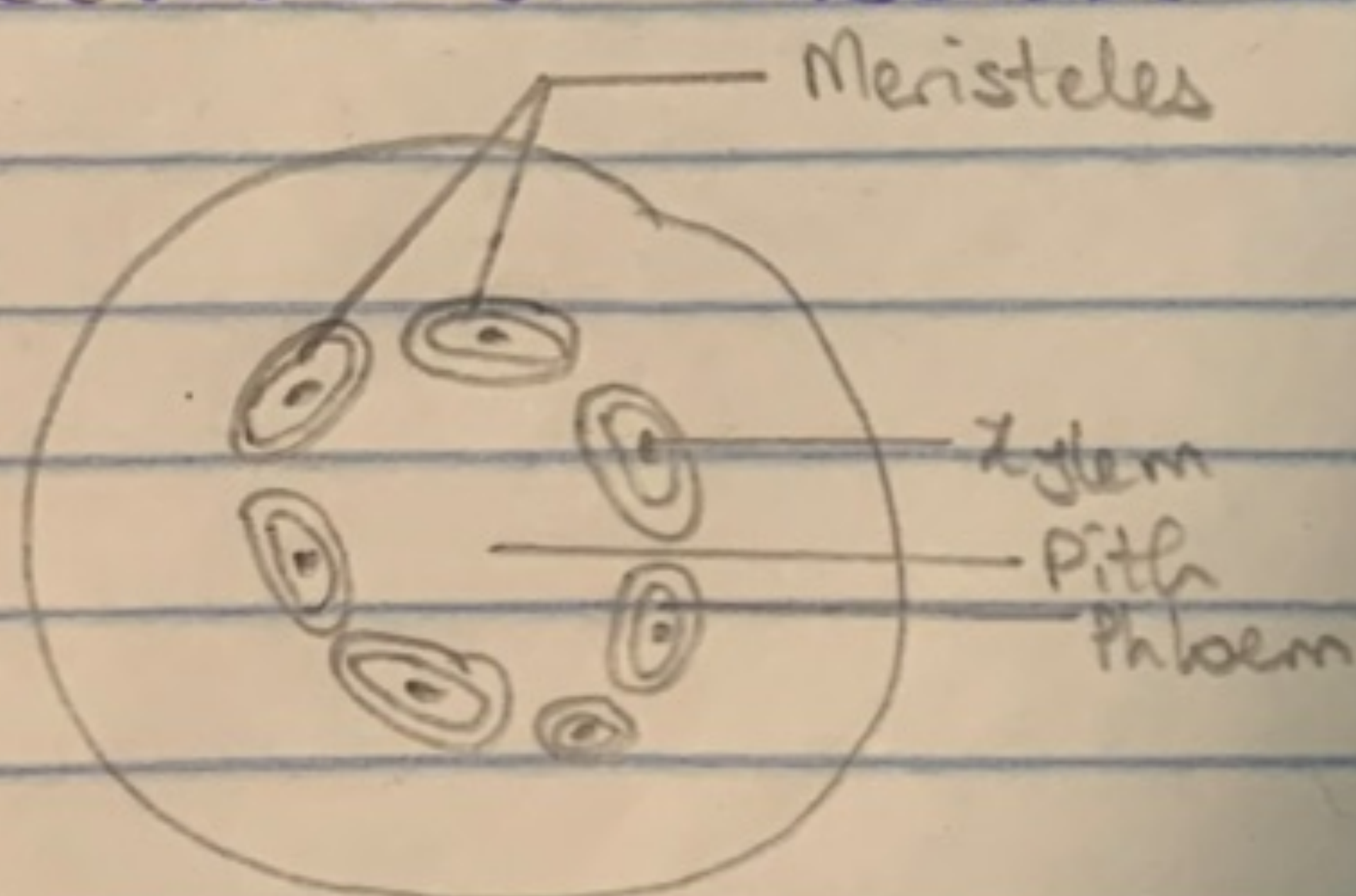
ii] They possess a waxy cuticle that keeps them from drying out through the process of desiccation

iii] They possess gametangia that keeps the plant gametes from drying out

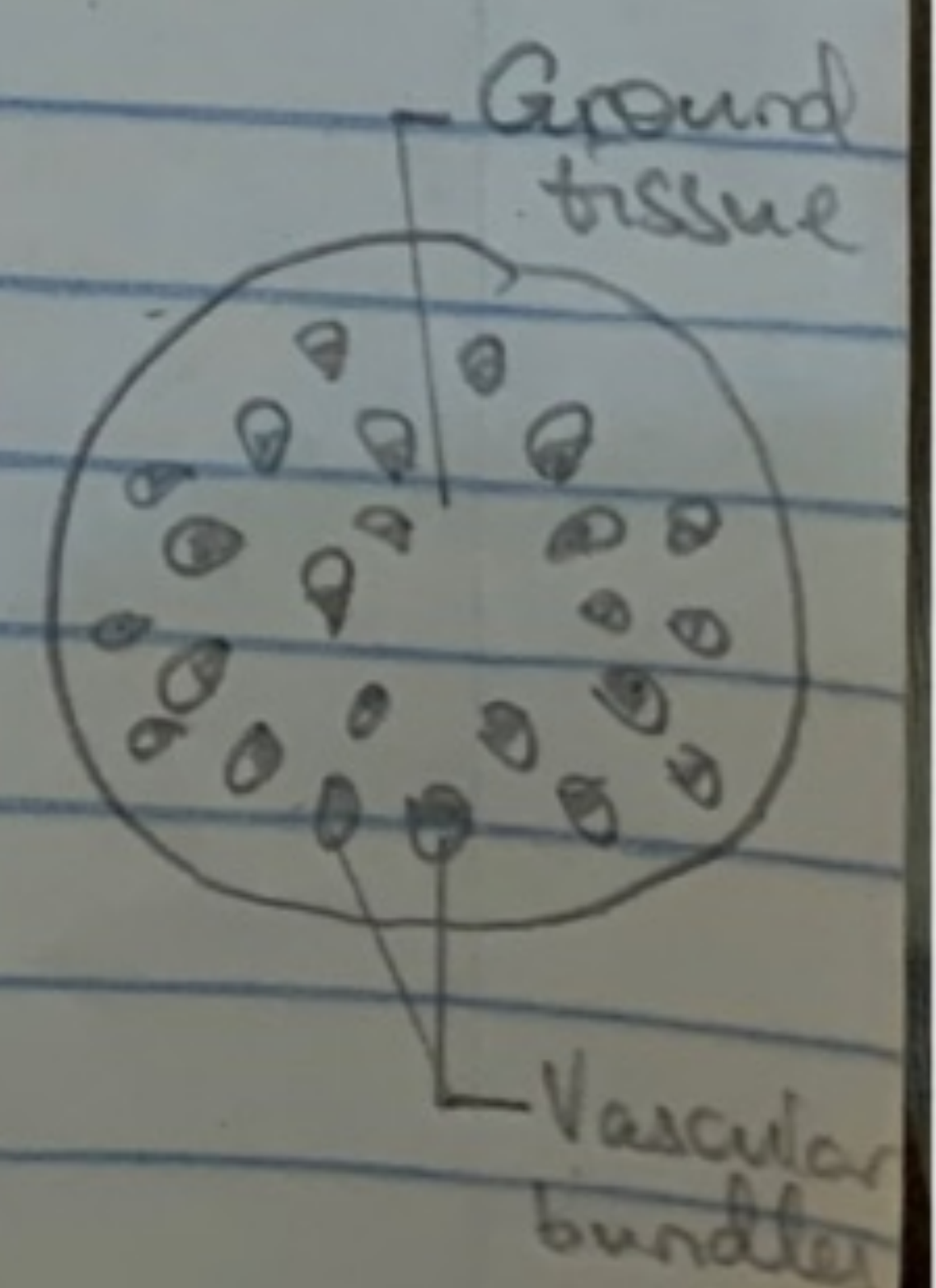
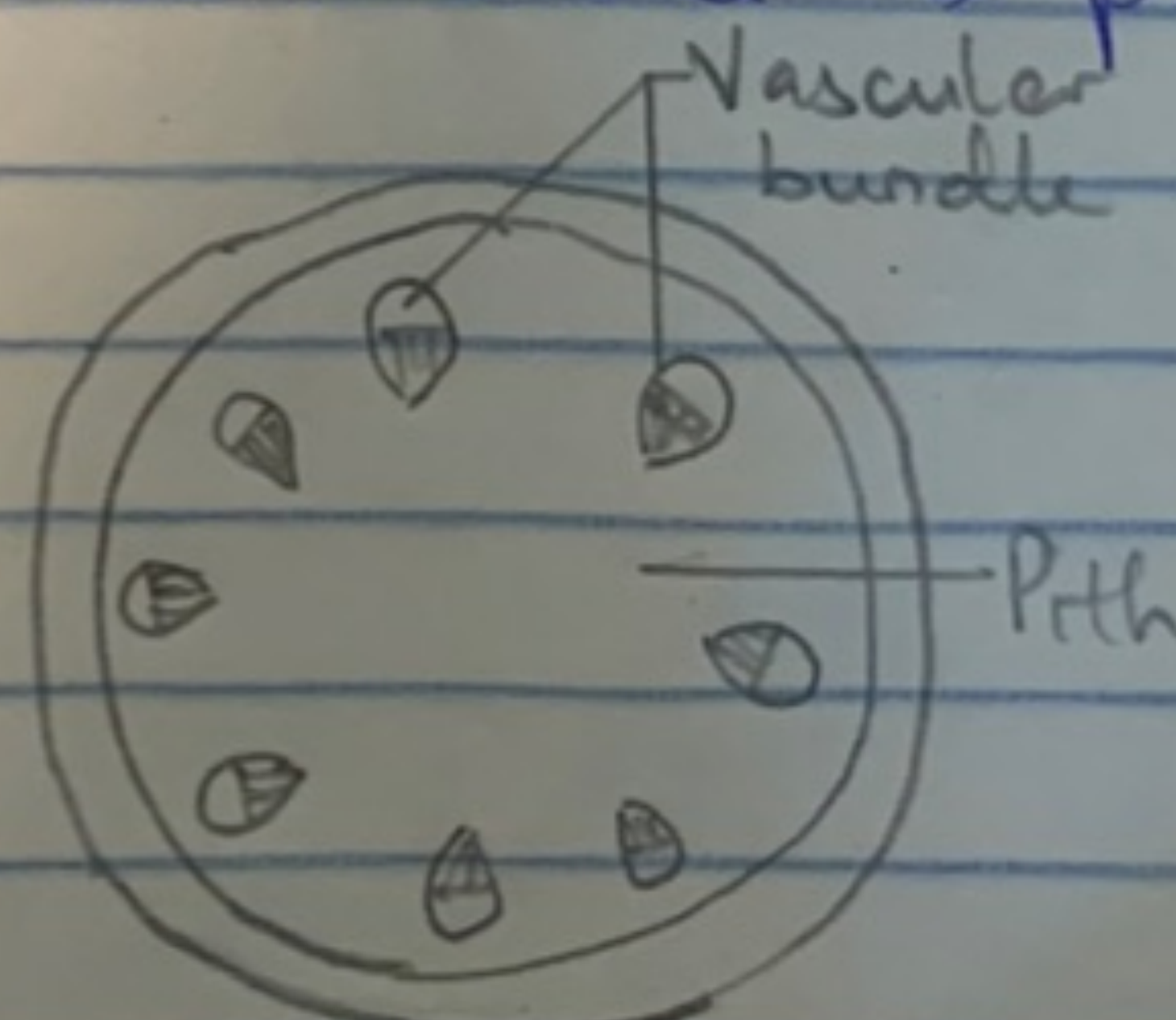
5 i] Eustele; a type of stele in which the vascular tissue in the stem forms a central ring of bundles around a pith. The vascular bundles are discrete, concentric collateral bundles of xylem and phloem.

ii] Atactostele; a type of stele found in monocots, in which the vascular tissue in the stem exists as scattered bundles.

iii] Dicotyle; a type of stele in which the vascular cylinder is broken up into a longitudinal series or network of vascular strands around a pith.



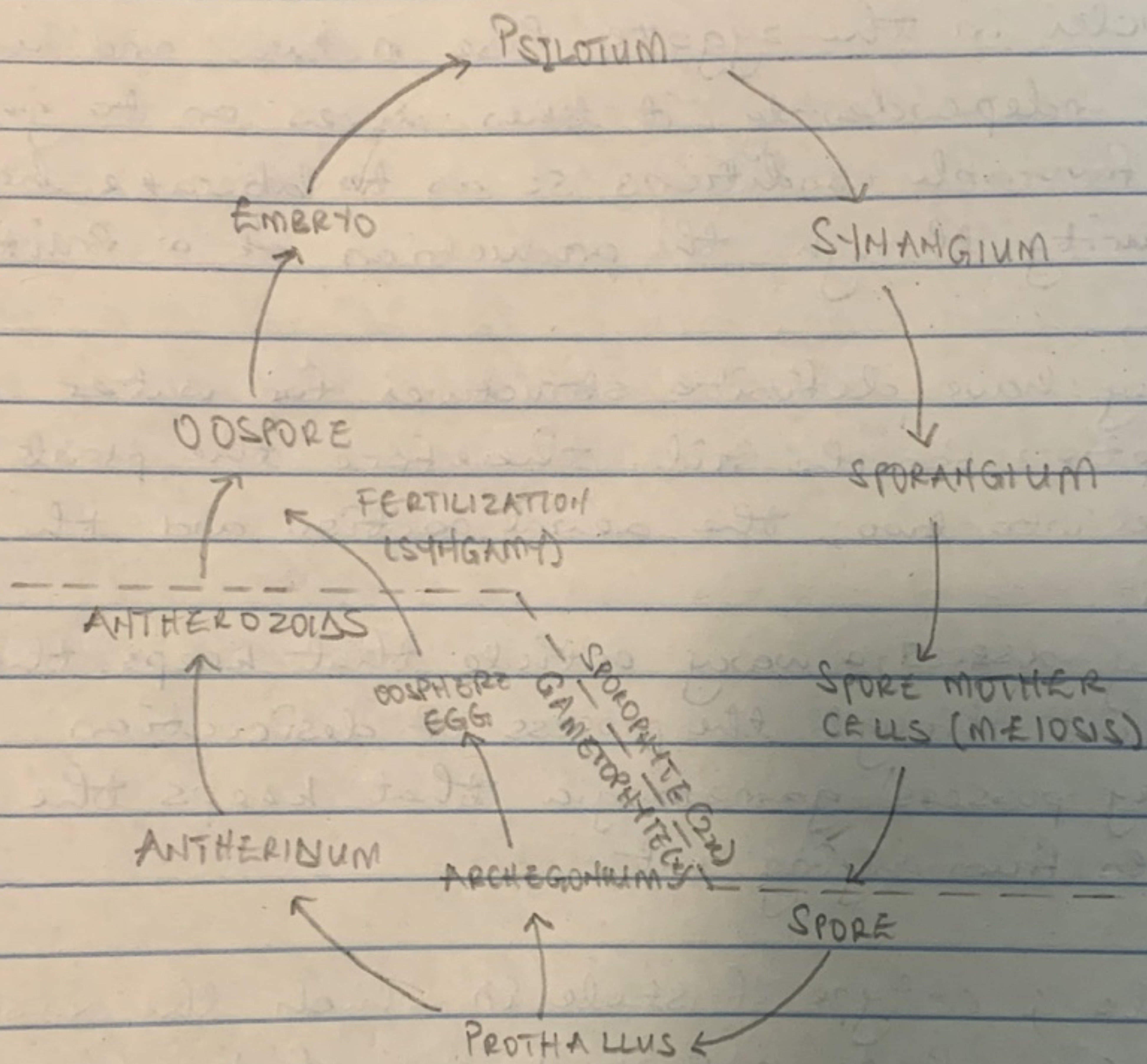
DICOTYLE



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LIFE CYCLE OF A PRIMITIVE VASCULAR PLANT (PSILOTUM)