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DEPARTMENT: MBBS

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ANSWER TO ASSIGNMENT II

1. Importance of fungi to mankind

- Yeast is important in food industries like confectionaries
- mushrooms serve as food to man
- Fungi are responsible for the mediation decay of dead organic matter.

2.

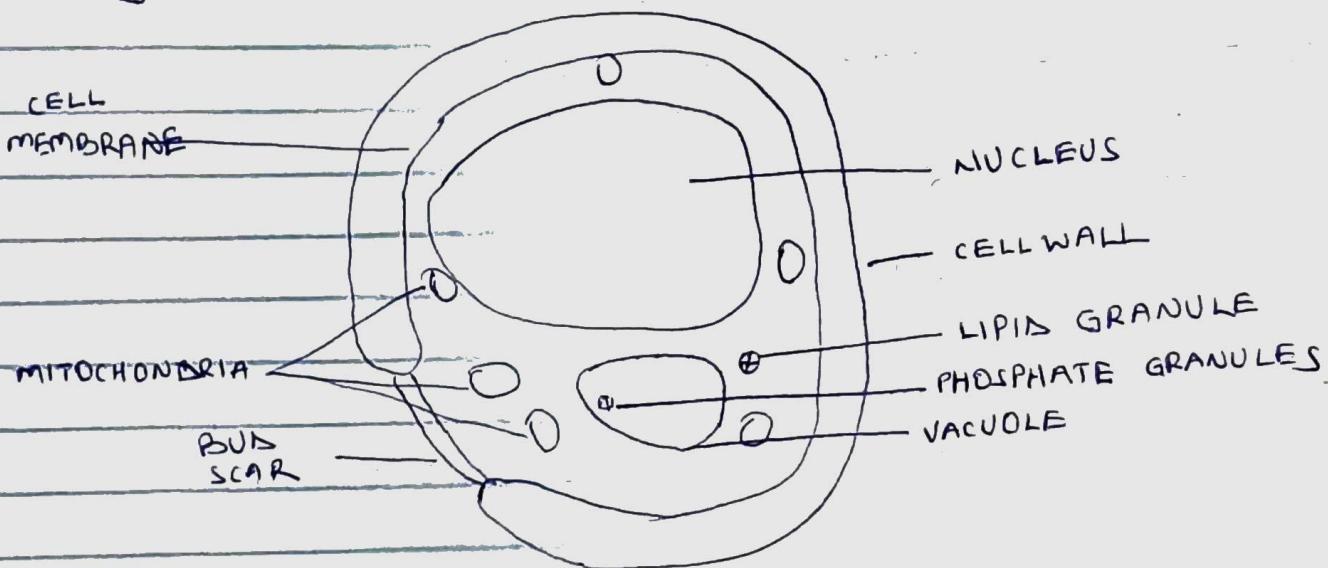


DIAGRAM OF THE CELL STRUCTURE OF A UNICELLULAR FUNGUS

3. Sexual Reproduction in Rhizopus stolonifer

- i First, two mating types of hyphae grow in the same medium.
- ii 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 the wall just so the nuclei are isolated in differentiated sex organs called gametangia.
- iv. The gametangia fuse in a process known as plasmogamy.

and together they form a zygote which may undergo dormancy for a period.

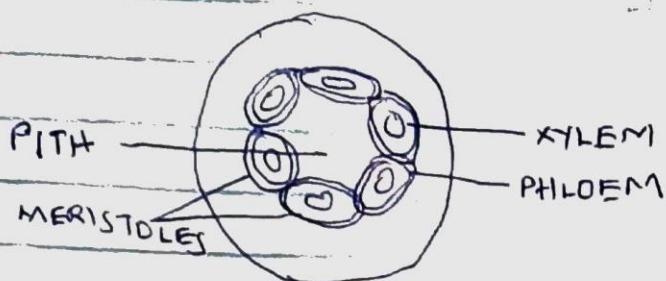
- v. The nuclei in the zygote fuse in ~~in process~~ twos and undergo meiosis independently and then it moves on to germinating under favourable conditions so as to liberate haploid spores at maturity through the production of a fruiting.
 - vi. In summary, sexual reproduction in fungi consists of three stages; plasmogamy, karyogamy and meiosis.
4. Bryophytes are able to survive in their habit due to the following:
- a. They possess definite structures for water and nutrient absorption from the soil.
 - b. They also possess a waxy cuticle that keeps them alive hydrated through the process of desiccation.
 - c. They possess gametangia that keep the plants from drying out.

5 AF

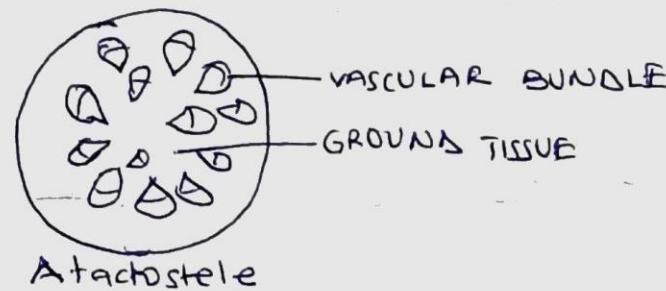
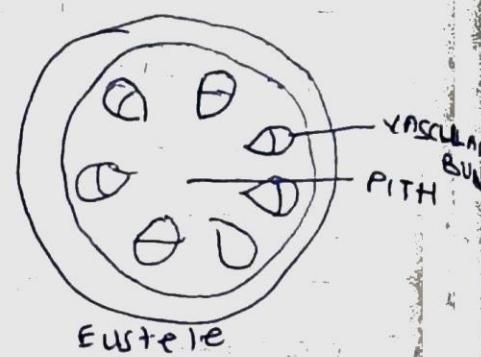
- i. Eustele; a type of stele in which the vascular tissue in the stem forms a central ring of bundles around a pith. The vascular bundles are discrete, concentric collateral bundle of xylem and phloem.
- ii. A dictostele; this is found in monocots, in which the vascular tissue in the stem exists as scattered bundles.
- iii. Dichotomous stele: a type of stele in which the vascular cylinder is broken up into a longitudinal series or network of vascular strands around a pith.

DIAGRAMATIC

ILLUSTRATION OF THE DIFFERENT STELES



Dicotyledone



6. Lifecycle of a primitive vascular plant (psilotum)

