

Absorption from the Soil.

- i) They also possess a waxy Cuticle that keeps them from drying out through the process of Desiccation.
- ii) They possess gumentingia that keep the plants gumetes from drying out.

- 5 A. 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.
- B. Stractostele; A type of Stele found in monocots. In which the Vascular tissue in the Stem exists as scattered bundles.
- C. Sclerostele; A type of Stele in which the Vascular strand is cylindrical is broken up into a longitudinal series or network of Vascular strands around a pith.

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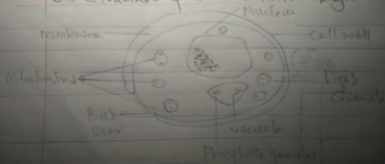
Department MBBS

Course Biology 102 Bio 102

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- 1 Fungi are important to man for the following reasons:
 - i They are responsible for the mediation of the decay of dead organic matter.
 - ii Yeast is important in food industries like bakeries and yogurt making factories.
 - iii Mushrooms are eaten by man
 - iv Some fungi are parasites to Obnoxious pests of Man.

2 Cell Structure of a Unicellular Fungus.



2 Sexual reproduction in filamentous fungi like Rhizopus Stolonifer Undergoes the following steps.

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 then delimited by a wall just so the nuclei are isolated in differentiated sex organs called gametangia (plural).

iv. The gametangia fuse in a process called plasmogamy and together they form a zygote which may undergo some rest for a period.

v. The nuclei in the zygote fuse in karyogamy and undergo meiosis independently, it then moves on to germinating under favourable conditions so as to liberate haploid spores that mature 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 habitat via the following:

i. They possess definite structures for water and nutrition.

6 Life Cycle of + Primitive Vascular Plant (Pteridium)

