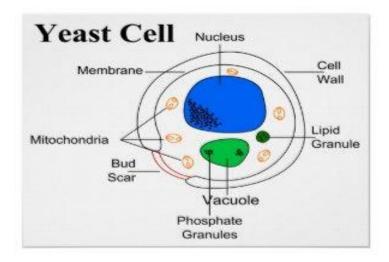
NAME; EKAMA GODSWILL OGHENEMUDIA MATRIC NUMBER; 19/MHS06/012 DEPARTMENT; MEDICAL LABORATORY SCIENCE (MLS) COURSE CODE; BIO 102

- 1. Fungi are important to man for the following reasons;
 - 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.

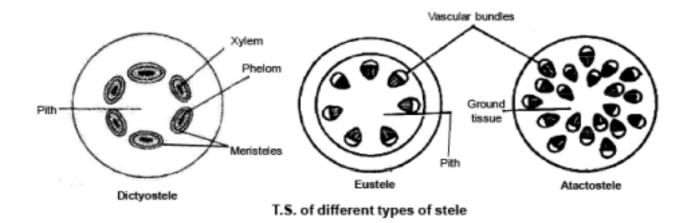
CELL STRUCTURE OF A UNICELLULAR FUNGUS



- 3. Sexual reproduction in a filamentous fungi like Rhizopus stolonifer undergoes the following steps;
 - 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 the 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 dormancy for a period.
 - v. 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.
- vi. In summary, sexual reproduction in fungi consists of three stages; plasmogamy, karogamy and meiosis.
- 4. Bryophytes are able to survive in their habitat via they following;
 - They possess definite structures for water and nutrient absorption from the soil.
 - ii. They also possess a waxy cuticle that keeps them from drying out through the process of desiccation
 - iii. They possess gametangia that keep the plants gametes from drying out.
- 5. A. Eusteles; 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. Atactostele; a type of stele found in monocots, in which the vascular tissue in the stem exists as scattered bundles.
 - C. Dictyostele; a type of stele in which the vascular cylinder is broken up into a longitudinal series or network of vascular strands around a pith.

Diagrammatic illustrations of the different steles.



6. Life cycle of a primitive vascular plant (psilotum)

