

Name: Abubakar Zainat Ize

Matric No.: 19/MHS01/013

Dept.: MBBS

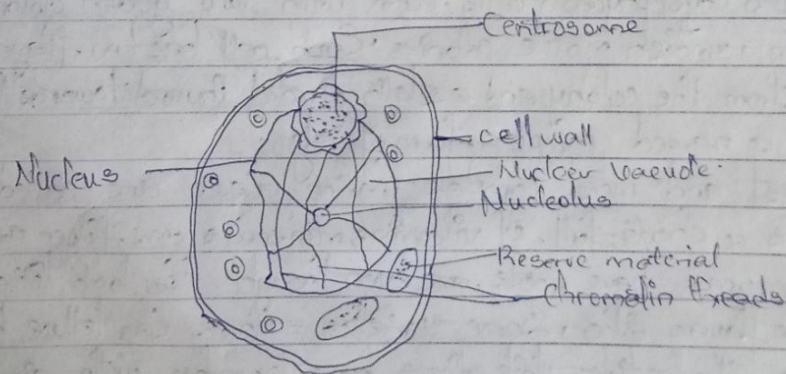
Course: BI0102 Assignment

① How are fungi important to mankind?

Fungi are important to everyday human life. Fungi are important decomposers in most ecosystems. Fungi, as food, play a role in human nutrition in the form of mushrooms, and also as agents of fermentation in the production of bread, cheeses, alcoholic beverages and numerous other food preparations. The ways in which fungi is important in human life are:

- (i) Biological Insecticides
- (ii) Farming
- (iii) Food
- (iv) Medicine

② Illustrate the cell structure of a unicellular fungus with a well labeled diagram. A good example is yeast (fungi)



Diagrammatic Representation of Parts of a Yeast Cell

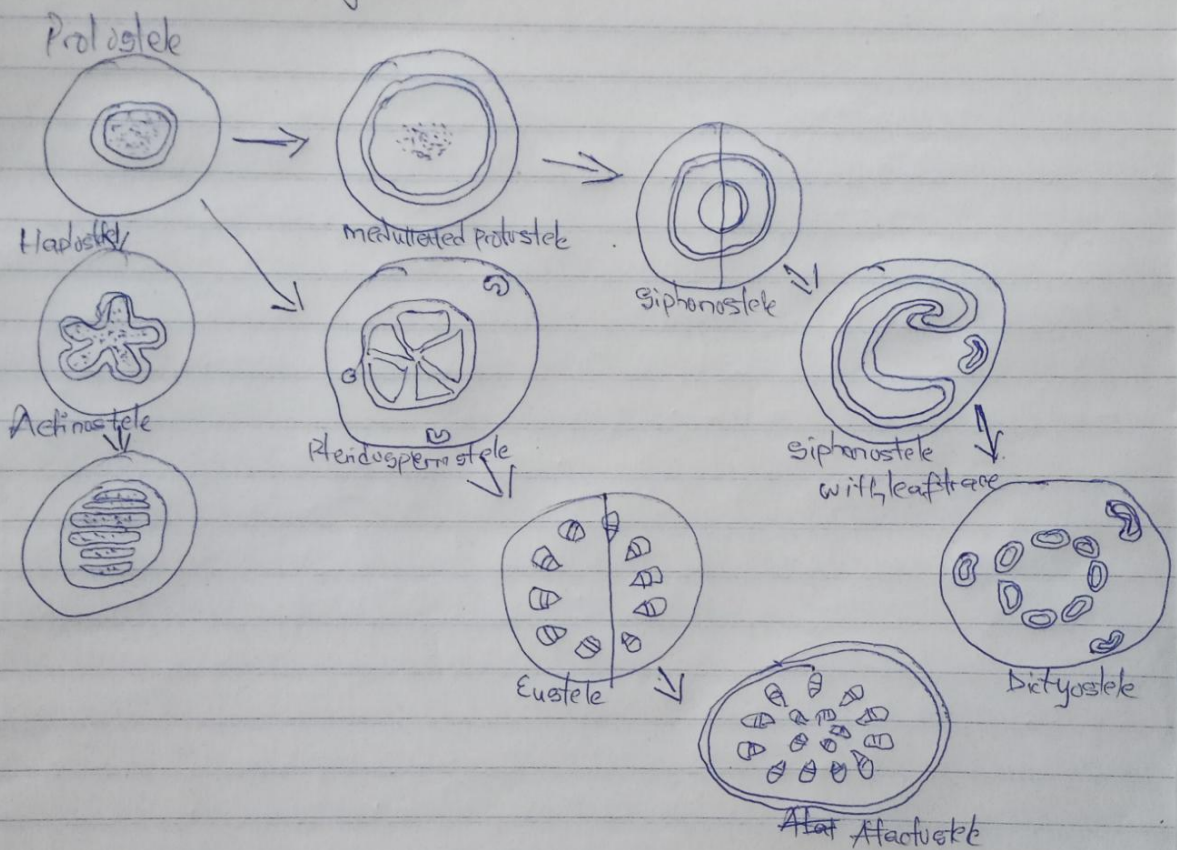
③ Outline the sexual reproduction in a typical filamentous form of fungi

Sexual reproduction in fungi consists of three sequential stages: plasmogamy, karyogamy and meiosis. It involves the fusion of two nuclei that are brought together when two sex cells (gametes) unite.

④ How do bryophytes adapt to their environment?

Two adaptations made the move from water to land possible for bryophytes: a waxy cuticle and gametangia. The waxy cuticle helped to ~~as a waxy cuticle can~~ protect the plants tissue from drying out and the gametangia provided further protection against drying out specifically for the plants gametes.

5) Describe with illustration the following terminologies: a) eustele, b) atactostele, c) siphonostele, d) dictyostele.



6) Illustrate the life cycle of a primitive vascular plant

The life cycle of seedless vascular plants is an alternation of generations, where the diploid sporophyte alternates with the haploid gametophyte phase. The diploid sporophyte is the dominant phase of the life cycle, while the gametophyte is an inconspicuous but still independent organism.

Unlike nonvascular plants, all vascular plants including seedless vascular plants have a dominant sporophyte generation. Seedless vascular plants include clubmosses and ferns.