

NEJFH AUSTIN
19/MH/801/258

BIO 102 ASSIGNMENT

- 1) Importance of Fungi to Man
- They mediate the decay of organic matter.
 - Mushrooms are eaten by many human societies.
 - Fungi e.g. yeast are important in food industries.

2)

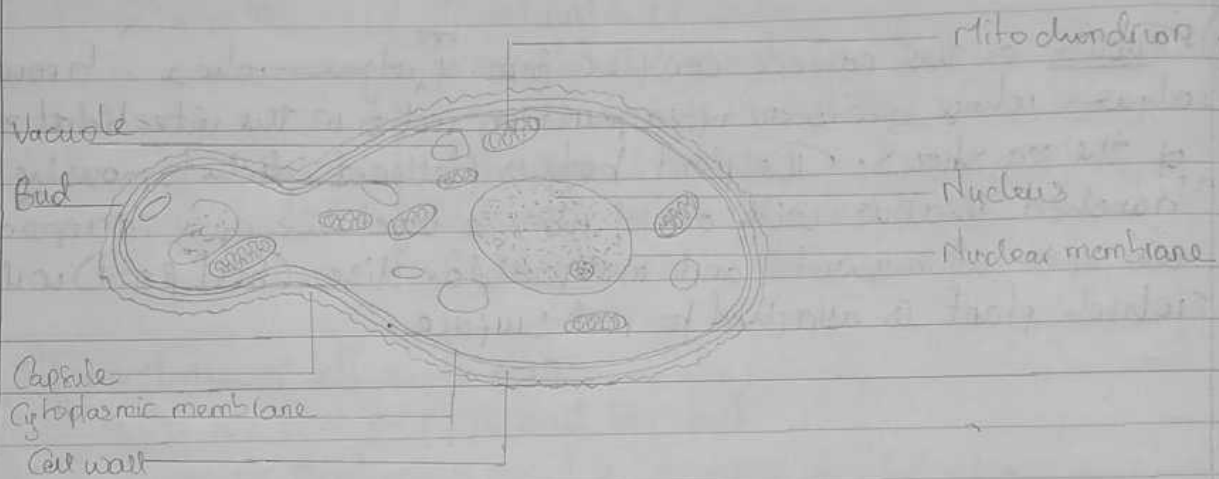


DIAGRAM ILLUSTRATING THE CELL STRUCTURE OF YEAST

3) Sexual Reproduction in *Rhizopus stolonifer*

Two mating hyphae ~~are~~ ~~to~~ produce what is called gametangium which ~~are~~ ~~at~~ ~~in~~ grow in opposite directions and their nuclei are isolated here and delimited by a wall. The two gametangia fuse (plasmogamy) and a zygote is formed which may undergo prolonged dormancy. The nuclei in the zygotes fuse in twos and undergo meiosis independently.

The zygote germinates under favourable conditions to produce a young ~~mature~~ zygospore which ~~liberates~~ ~~the~~ at maturity liberates the haploid spores.

- 4) i) They have definite structures for water and nutrient absorption from the soil; therefore plant body is divided into an aerial portion and a subterranean portion (rhizoid)

- ii) Modifications on the aerial portion prevent excessive loss of water through the body surface.
- ii) Some other modifications permit elimination of excess water from the plant body.

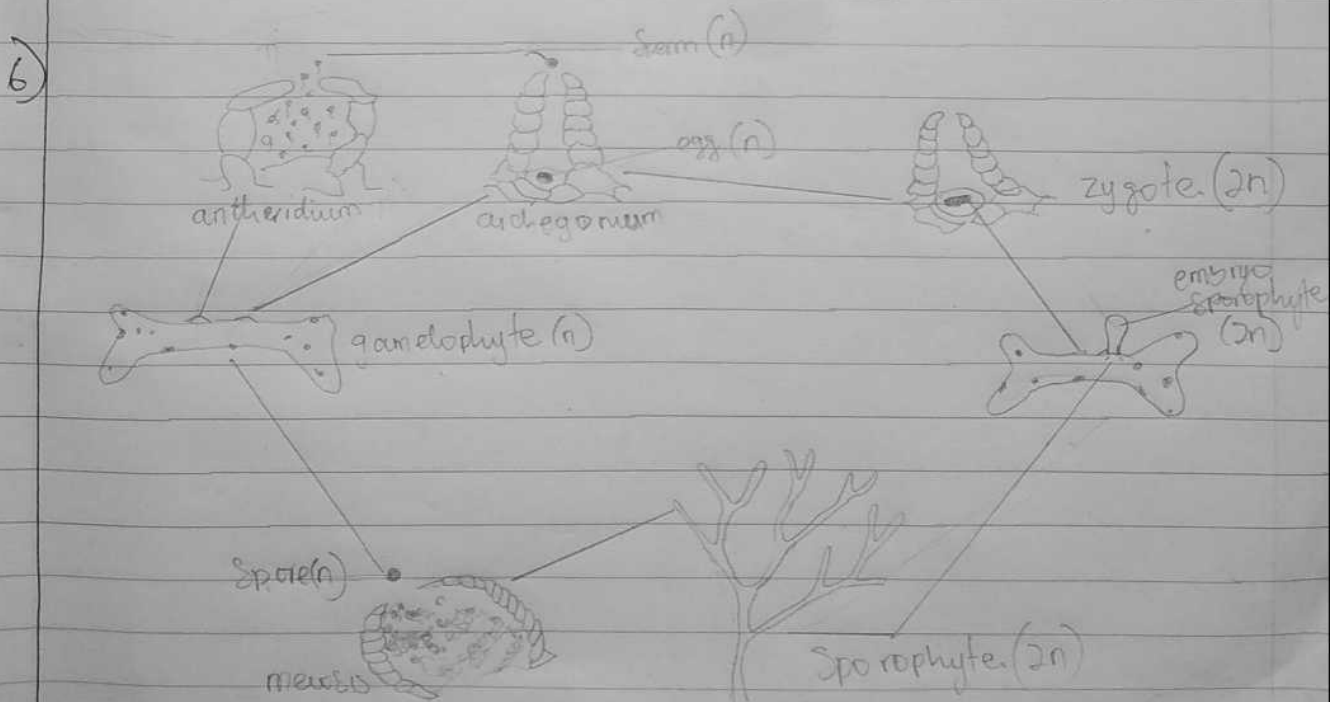
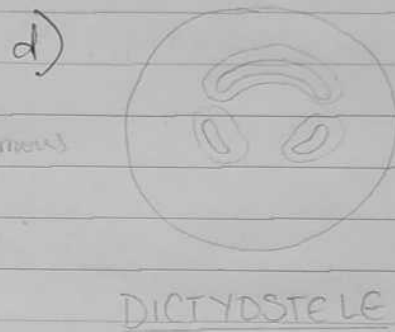
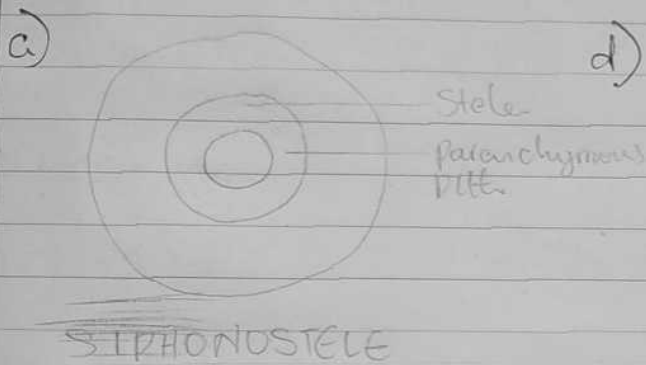
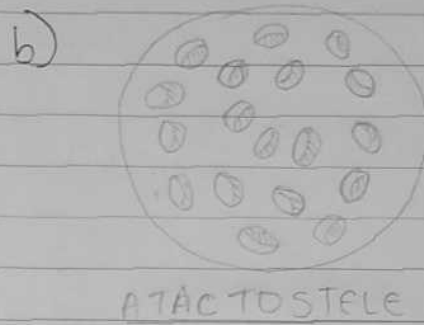
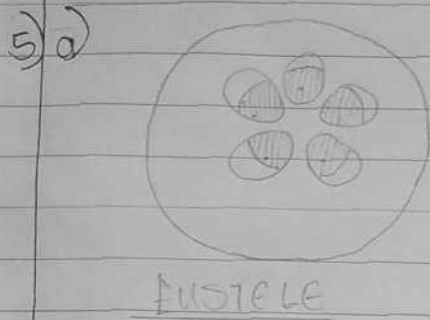


DIAGRAM OF THE LIFE-CYCLE OF PSILOTUM