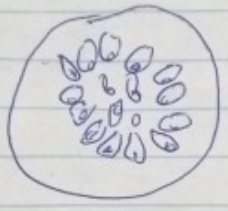
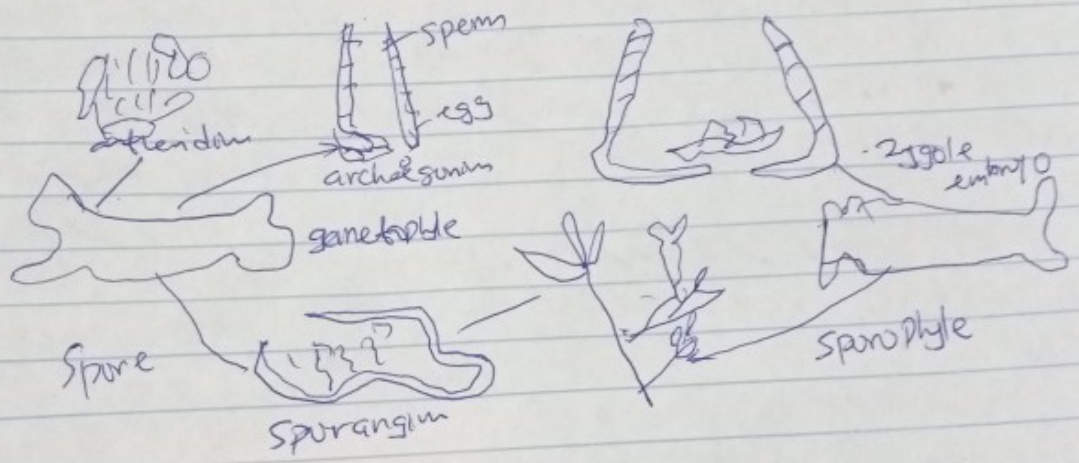
d



Atactostele

6 Illustrate the life cycle of a primitive vascular plant.



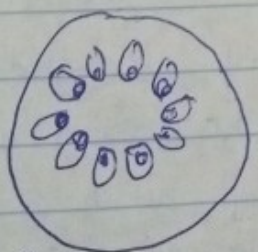
under- favourable condition to produce a flirting which at maturity liberates the haploid spores.

4 How do Bryophytes adapt to their environment?
Bryophytes adapt to their environment in two ways!
(a) They have definite structures for water and nutrients absorption from the soil therefore the plant body is divided into (an aerial portion and a sub-aerial portion. The subterranean portion is the rhizoid it is not actively as the case of land plants are advanced.
b The aerial portion being exposed to the atmosphere demands some modifications that prevent excessive loss of water through the body surface and pocinits elimination of excess water.

5 Describe with illustration the following terminologies
a) Eusteles
b) Atactostele
c) Siphonostele
d) dictyostele.

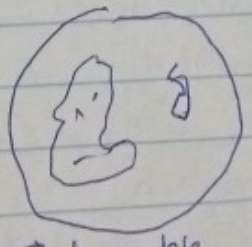
a Eusteles: A type of siphonostele, the vascular tissue in the stem forms central ring of bundles around a pitch
b Atactostele: A type of eusteles found in monocots in which the vascular tissues in the stem exists as scattered bundles
c Siphonostele: A stle consisting of a core of pith surrounded by concentric layers of xylem and phloem. It is cylinder surrounding the pith, as in the stems of root, ferns and other seedless vascular plants.
d Dictyostele: A stele in which the vascular cylinder is broken up into a longitudinal series of network of vascular strand around a central pith.

(a)



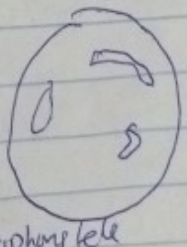
Eustele

b)



Siphonostele

c)



Siphonstele

d

6 Illustrate

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Bio 102 Assignment

1) How are fungi important to mankind?

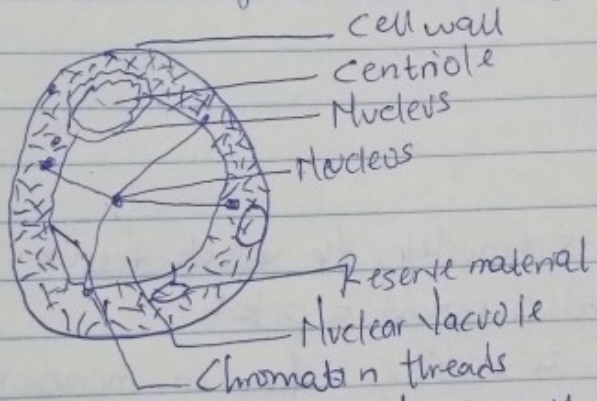
i) Fungi e.g. yeast (saccharomyces species) are important in food industry and some are medicinal

ii) Mushroom are eaten by human societies.

iii) Some fungi are parasites to some certain horrible obnoxious (offensive, unbearable) pests e.g. houseflies, grasshopper and therefore constitute important biological control agents in regard to such pests.

iv) They influence the well-being of human population on a large scale why because they are part of the nutrient cycle in ecosystem.

2 Illustrate the cell structure of a unicellular fungus with a well labelled diag.



Diag. Rep. of A Yeast cell

3 Outline the sexual reproduction in a typical filamentous form of fungi Using Rhizopus stolonifer as an example: Sexual reproduction occurs when two mating types of hyphae grow in the same medium chemical interaction in the two mating types of hyphae induces growth perpendicular to the hyphae in opposite direction. These growth are delimited by a wall such that many nuclei are isolated in what is called a gametangium. The two gametangium fuse (plasmogamy) and a zygote is formed which may undergo prolonged dormancy. The nuclei in the zygote undergoes meiosis independently. The zygote germinates to release

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