

Q1) Name the information source of making proteins in cells. State two basic events of reproduction.

The information source of making proteins in cell is DNA.

The two basic events in reproduction are

- (a) DNA copying occurs
- (b) Additional cellular apparatus by the cell involved in the process.

Q2) Explain ~~the~~ vegetative propagation with the help of two examples. List two advantages of vegetative propagation.

Vegetative is a process of obtaining new plants from the part of old plant like stem, roots, leaves etc. for example -

- In bryophyllum plants, it reproduces from its leaves from
- money plant can grow from its stem

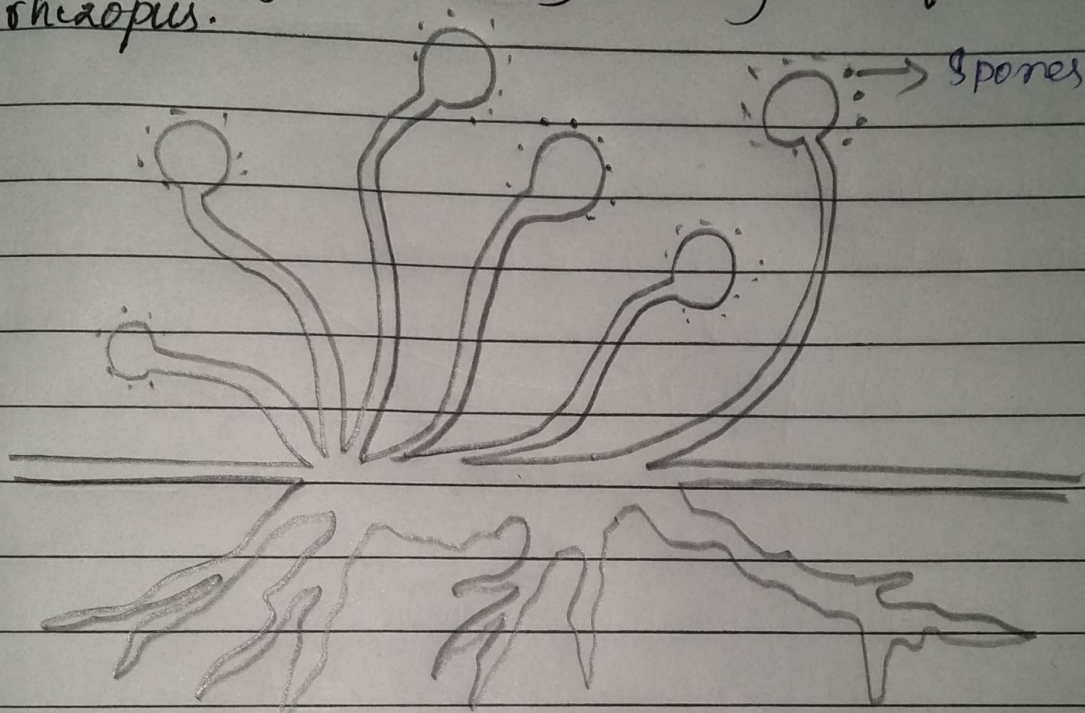
### Advantages

- (i) They are cheap
- (ii) The plant grow faster by ~~its~~ this process
- (iii) Plant are also genetically identical to the parent plant.

(5) (a) What is spore formation?

Spore formation formed in Rhizopus, Rhizopus body is made up of thread like structure called as hyphae. This hyphae produce sporangia inside which spores are formed. They are produced in unfavourable condition.

(b) Draw a diagram showing spore formation in Rhizopus.



Spores formation

(c) List the two advantages for organisms to reproduce themselves through spores.

The advantages are as follows:

(i) It can resist in unfavourable condition

(ii) In favourable condition, cyst wall bursts and spores germinate to form a new plant.