

## Homework

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

ans - \* The information source of making proteins in the cell is DNA.

\* Two basic events in reproduction are -

→ The creation of a DNA copy

→ DNA copying is accompanied by the creation of an additional cellular apparatus, and then the DNA copies separate.

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

ans - \* vegetative propagation in plants is a method of asexual reproduction in which the parts other than seeds are used as propagules (i.e., the structural unit that is employed in place of seed).

\* ex: modified fibrous roots can be propagated vegetatively when planted in soil

\* The buds present on the roots can grow into leafy shoots (eg, Guava).

## Advantages:

- It is a quick method
- Many plants can be grown from one plant.

Q4 (a) What is spore formation? (b) Draw a diagram showing spore formation in Rhizopus. (c) List two advantages of organisms to reproduce themselves through spores.

ans - (a) Spore formation is an asexual mode of reproduction which involves formation of reproductive structures called spores which detach from the parent & give rise to a new individual.

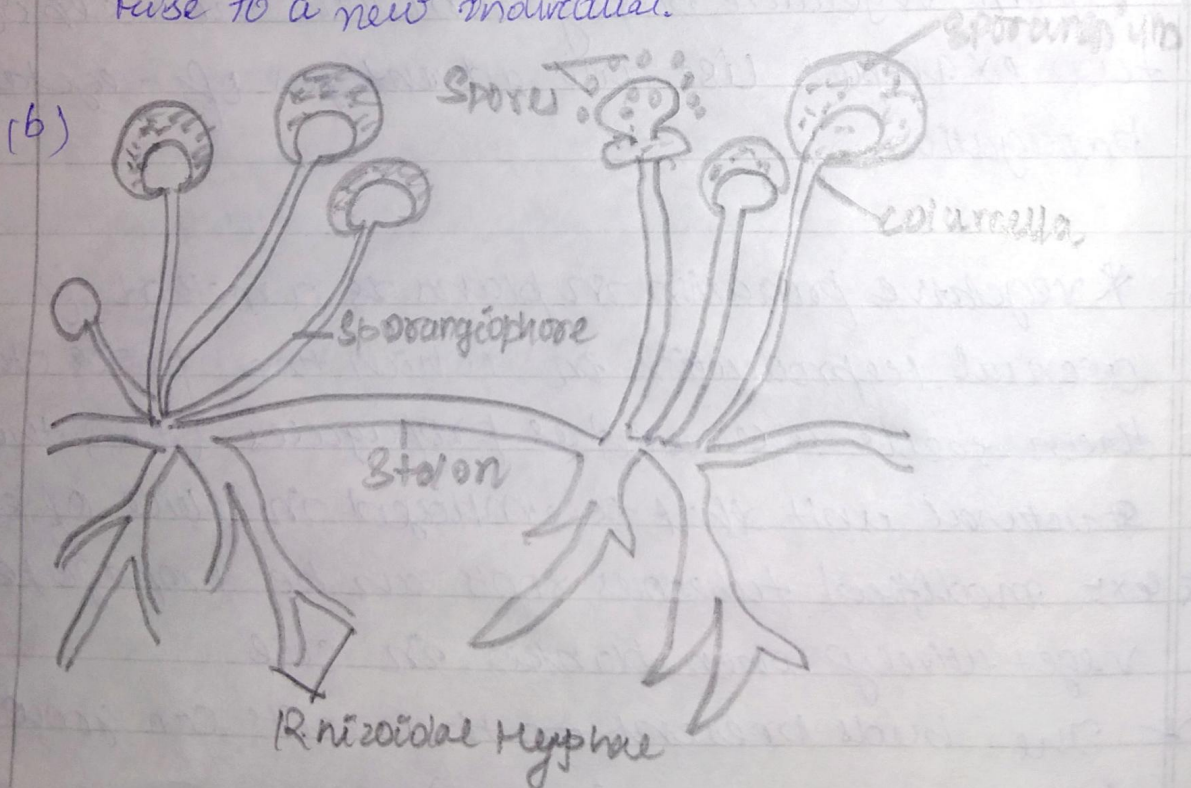


Diagram of spore formation in Rhizopus

(C) \* It is a faster & simple mode of reproduction

\* The spores are covered with thick walls to prevent dehydration under unfavourable conditions.