

How  
7/8/21

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

Ans The information source of making proteins in cell is DNA.

Two basic events in reproduction are:-

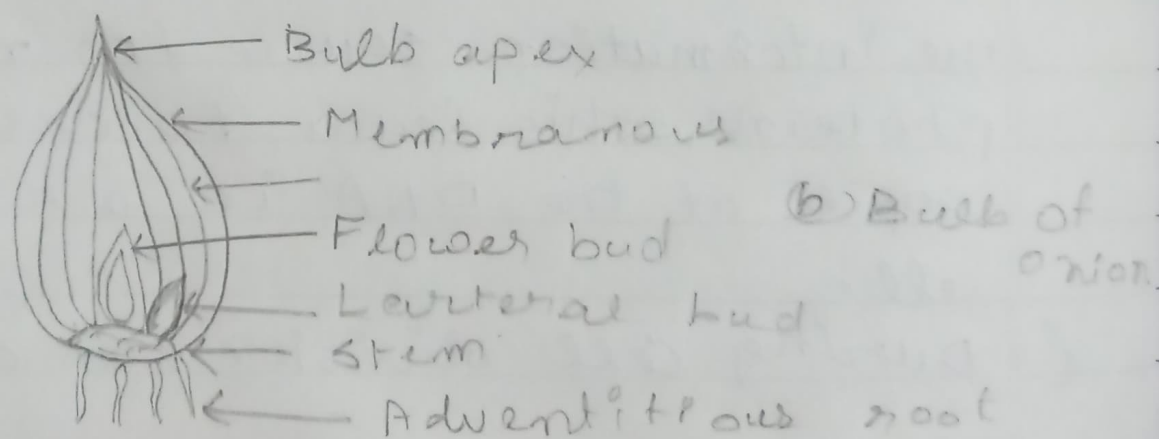
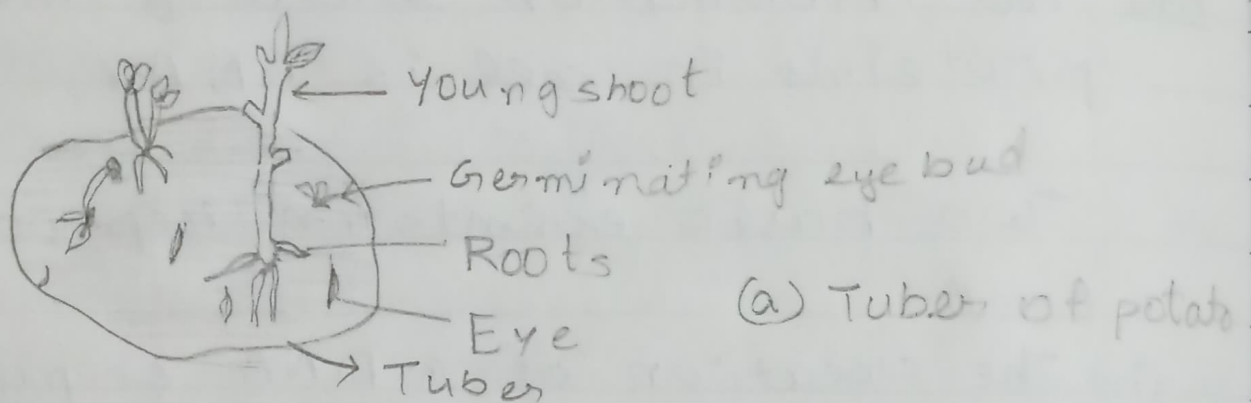
(i) The creation of a DNA copy as the DNA in the cell nucleus is the information source for making proteins. This leads to create two copies of the DNA in a reproducing cell.

(ii) During cell division, an additional

cellular apparatus is created so that the DNA copies separate, each with its own cellular apparatus.

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

Ans. Vegetative propagation is a method of reproduction in some higher plants in which a new plant develops from the vegetative parts of a plant such as root, stem or leaf.



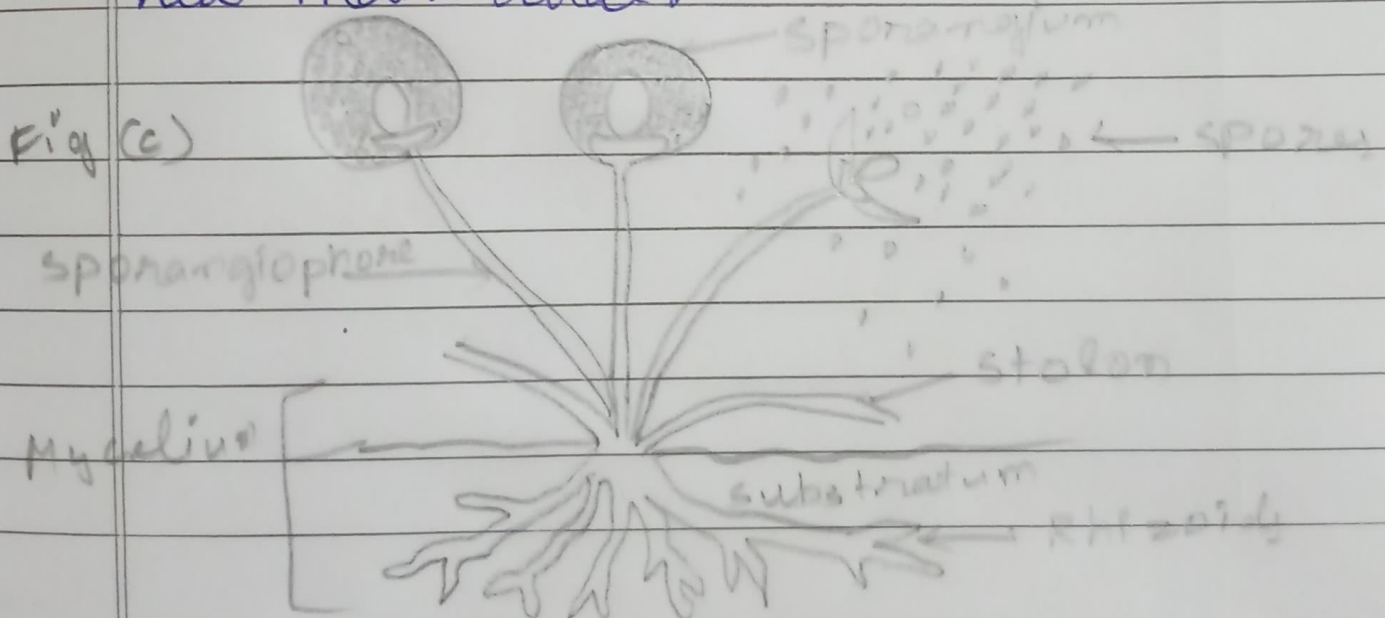


## Advantages vegetative propagation

- \* The desirable characters of the plant can be preserved through generation
- \* flowers and fruits can be grown in a shorter period of time.
- \* It is cheaper, easier and rapid method of plant propagation.

Q3. (a) What is spore formation? (b) Draw a diagram showing spore formation in Rhizopus. (c) List two advantages for organisms to reproduce themselves through spores.

Ans A spore is a single or several celled reproductive structure that detaches from the parent and gives rise directly or indirectly, to a new individual.



## Advantages of spore formation:

- ⇒ Spores do not require any medium for dispersal. They are light weight
- ⇒ Spores are distributed easily by air to far-off places.
- ⇒ These are covered with thick walls to prevent dehydration under unfavourable conditions