

Q) Name the information source of making proteins in the cell. State 2 basic events reproduction.

1) DNA

i) a) The creation of a DNA copy. Here, the cell uses chemical reactions to build copies of their DNA. This creates two copies of the DNA in a reproducing cell.

b) DNA copy is accompanied by the creation of an additional cellular apparatus and then the DNA copies separate, each with its own cellular apparatus. Effectively a cell divides to give rise to 2 cells.

Q) Explain vegetative propagation with the help of 2 examples. List 2 advantages of vegetative propagation.

The process in which new plants are grown from the old parts of another plant like roots, shoots & leaves without involving any reproductive organ is termed as vegetative propagation.  
Ex - guava trees can be propagated using their roots, Bryophyllum can be propagated by using its leaves.



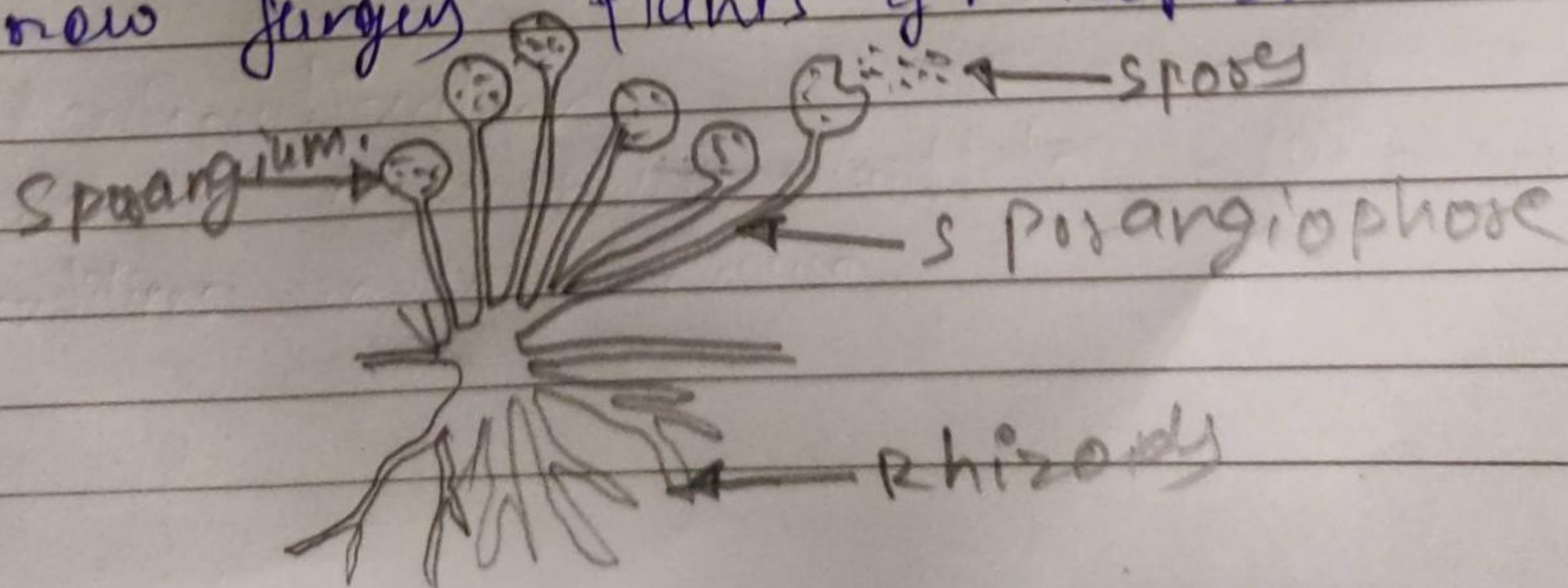
### Advantages

- faster cultivation in less time.
- They need less care, and a large number of plants can be produced.

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

Spore formation is a method of asexual reproduction in which many spores are stored in sacs called sporangia and these sacs burst out to give single celled structures called spores.

Sp. When a slice of bread is kept in moist dark place for a few days spores of Rhizopus present in air settle on the bread to form new fungus plants of Rhizopus.





2 advantages .

- i) It is ~~the~~ fastest mode of reproduction.
- ii) Offspring produced are asexual.