

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

The information source of making proteins in cell is DNA.

Two basic events in reproduction are -

i) The creation of a DNA copy. Here the cells use chemical reactions to build copies of their DNA.

ii) DNA copying is accompanied by the creation of an additional cellular apparatus, and then the DNA copies separate, each with its own cellular apparatus.

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

Propagation.

In vegetative propagation, new plants are obtained from the parts of old plants, without the help of reproductive organs.

e.g - Bryophyllum plant reproduces from its leaves and money plant grows from its stem.

Advantage -

- i) Plants grow faster by the process of vegetative propagation.
- ii) They need less care.

3) a) What is spore formation?

b) Draw a diagram showing spore formation in Rhizopus.

c) List two advantages for organism to reproduce themselves through spores.

a) 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.

(1) Two advantages are -

- o. It is faster mode of reproduction
- o. Offspring produced are identical

# Breeding sporangia

Spores

Sporangia

Dispersing spores

Hyphae

