

HOME ASSIGNMENT

1. Give two reasons for the appearance of variations among the progeny formed by sexual reproduction.

Ans. The two major reasons for the appearance of variation among the progeny formed by sexual reproduction are

- Crossing over is the process in which DNA is exchanged between the homologous chromosomes during ~~meo~~ meiosis. This causes variation in the progeny.
- The progeny formed due to sexual reproduction has characteristics from the mother as well as the father. Hence, because of this the characteristics differ and result in variation.

2. Reproduction is one of the most important characteristics of living beings. Give three reasons in support of the statement.

Ans. Reproduction is one of the most important characteristics of living beings as -

- This method allows the survival of the species.
- It is a process through which one organism produces a offspring of the same kind. One generation of living organisms produce the next generation
- Reproduction is necessary of continuity of species so that the organisms will not be extinct

3. What is vegetative propagation? When it is used? List its two uses.

Ans. vegetative propagation is a type of asexual reproduction in which the vegetative part of plant like leaves, stem, roots, gives rise to a new plant.

It is used to grow -

- Plants that have lost the capacity to produce seeds
- Plants which are genetically similar enough to the parent plants
- Superior quality of plants can be obtained