

Homework

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

ans- The reasons for the appearance of variations among the progeny formed by sexual reproduction are:-

* In sexual mode of reproduction, there is fusion of gametes coming from two different and sexually distinct individuals.

* During meiosis, in DNA copying, there is a stage in which crossing over of chromosomes takes place. This is a very important step which results a slight different composition of chromosomes in gametes.

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

ans - * Reproduction is an energy spending process which is not a life process of a living organism. But still organisms reproduce. They reproduce to increase in number.

* Reproduction results in the increase of members.

Which look alike The organisms which look similar to each other belong to the same species

* Thus, reproduction provides group immortality by replacing the dead individuals with new ones for the survival of the species on this earth.

34. What is vegetative propagation? when is it used? List its two uses.

ans - * vegetative propagation in plants is a method of asexual reproduction in which the parts other than seeds are used as propagules

* It is used when plants have lost their capacity to produce seeds or produce non-viable seeds.

* Its two uses :-

→ Many plants can be grown from one plant by vegetative propagation.

→ It is a quick & cheap method of propagation.