

HW 3/8/21

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

ans - \* Sexual reproduction causes variation in the appearance in progeny because it involves DNA of both the parents.

\* During that process of DNA copying, the biological process can't be accurate, hence

The DNA copying leads to some variation.

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

ans-  
→ It increases the population of species  
→ It also helps in evolution.  
→ It is helpful to produce next generation.

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

ans- Vegetative propagation is a process in which new plants are obtained from the part of parent plant like root stem and leaves without the involvement of reproductive organs.

The plants, who have lost their capacity to produce seed, plants who are genetically similar enough to the parent plant at that time the method is used.

The uses of vegetative propagation are-

- In this process the new plant produced is exactly like parent plant.
- Many plants can be grown from one parent plant.
- certain desirable characteristics present in the fruit can be maintained.
- It is a very cheap and rapid method.