

of crossing over. In which DNA is exchanged between the homologous chromosomes during meiosis.

o Because of characters which differ in the progeny & result in variation.

2) Reproduction is one of the most important characteristics of living beings.

Give three reasons in support of the statement.

o The reproduction process is not essential for an individual, but it is very necessary for continuity of a species.

o In reproduction one generation of living organisms produce next generation; it means the parents produce offspring like themselves.

0' Reproduction is means of increasing population of species. It plays an important role in the process of evolution too.

3) What is vegetative propagation? when is it used? List two uses.

It is an asexual method of reproduction. In this process, vegetative part of a plant, body such as stem, leaves, bulb, tubers are used for growing new plants by cutting, grafting and layering which are identical to parents.

Uses -

- o plants that have lost the capacity to produce seeds
- o plants which are genetically similar enough to the parent plants.