

Reproduction in Plants

Q1. Describe the different methods of asexual reproduction. Give examples.

Ans. Different methods of asexual reproduction

Vegetative propagation - It is a type of asexual reproduction in which new plants are produced from roots, stems, leaves and buds. Example - Bryophyllum (sprout leaf plant) has buds in the margins of leaves. If a leaf of this plant falls on a moist soil, each bud can give rise to a new plant.

Fragmentation - It is a form of asexual reproduction in which an organism is split into fragments. Each of these fragments develop into matured, fully grown individuals that are clones of the original organism. Example - When water and nutrients are available algae grow and multiply rapidly by fragmentation.

Spore Formation - The spores are asexual reproductive bodies. In spore formation parent plant produces tiny spores which can then produce new plants. Example - Plants such as moss and ferns also reproduce by means of spores.

Budding - Budding is a type of asexual reproduction in which a new organism develops from an outgrowth or bud due to cell division at one particular site. The small bulb like projection coming out from the yeast cell is called a bud. Example - Most yeasts reproduce asexually by an asymmetric division process called budding.