SREE VIDYANIKETHAN
International School

CLASS : X **BIOLOGY** **HOLIDAY HOME WORK**

REPRODUCTION

ASEXUAL
Need one parent

SEXUAL
Need two parents

FISSION

Binary Fission

Nucleus first divides into two
Cytoplasm divides into two
Two daughter cells are formed
Eg: Amoeba

Multiple Fission

Nucleus divides repeatedly producing many nuclei.

Each nucleus is surrounded by small amount of cytoplasm.

Cysts breaks up and offsprings are released.

Eg: Plasmodium.

FRAGMENTATION

Breaks up into 2 or more small pieces. Eg: Spirogyra

REGENERATION

Broken parts of the organism grow into separate individuals. Eg: Planaria.

Budding

A bud develops as an out growth due to repeated cell division.
When matured, bud gets detached from parent body.
A new independent individual is formed.
Eg: Hydra

Spore formation
Eg:Rhizopus

Vegetative Propagation

Natural
Roots
leaves
stem

Artificial

Cutting
Any part of the plant is cut and buried in the moist soil.
Eg: Rose

Layering
Adventitious roots are produced
Plant is then detached.
Eg: Jasmine

Grafting
Scion(portion grafted)
Stock (Plant on which grafted.
Eg: mango