Asexual Reproduction in Plants

A. Choose the Correct Answer:

1. What is asexual reproduction in plants?

- A) Reproduction without seeds or spores
- B) Reproduction using flowers and pollen
- C) Reproduction with the help of animals
- D) Reproduction only through cross-pollination

2. Which of the following is an example of asexual reproduction?

- A) Formation of seeds in flowers
- B) Growing a new plant from a stem cutting
- C) Pollination by insects
- D) Growth of plants from seeds

3. What type of asexual reproduction occurs in potatoes?

- A) Budding
- B) Grafting
- C) Stem cutting
- D) Vegetative propagation through tubers

B. Fill in the Blanks:

1.	reproduction in plants occurs without the involvement of seeds.
2.	The growth of a new plant from the root, stem, or leaf of the parent plant is called
3.	is an example of a plant that reproduces asexually through its leaves.

C. Case Study:

Riya's mother planted a rose bush in her garden.

- Instead of using seeds, she cut a small part of the stem and placed it in the soil.
- After a few days, the stem cutting started to grow roots and leaves.
- Riya's mother explained that this is a form of asexual reproduction called stem cutting.
- She also mentioned that plants like money plants and hibiscus can grow from stem cuttings.

Case Study Questions:

- 1. What method of asexual reproduction did Riya's mother use?
- 2. What changes did Riya observe in the stem cutting after a few days?
- 3. Name two other plants that can reproduce through stem cutting.
- 4. Why is stem cutting considered a type of asexual reproduction?

D. Short Answer Questions:

- 1. What is asexual reproduction in plants?
- 2. Name two plants that reproduce through vegetative propagation.
- 3. How does a potato plant reproduce asexually?

E. Long Answer Questions:

- 1. Explain the different types of asexual reproduction in plants with examples.
- 2. Describe the process of vegetative propagation and its advantages.
- 3. How do plants like Bryophyllum and money plants reproduce asexually?