



Sexual Reproduction

A. Choose the Correct Answer:

1. What is the primary purpose of sexual reproduction?

- A) To create identical offspring
- B) To increase genetic diversity
- C) To eliminate weaker species
- D) To produce energy

2. Which of the following is a male reproductive organ in humans?

- A) Ovary
- B) Uterus
- C) Testis
- D) Oviduct

3. In plants, fertilization occurs when:

- A) The pollen lands on the stigma
- B) The ovule is released from the ovary
- C) The sperm cell fuses with the egg cell
- D) The seed is dispersed

B. Fill in the Blanks:

1. Sexual reproduction involves the fusion of _____ from two parents.
2. The process of formation of male and female gametes is called _____.
3. In flowering plants, fertilization occurs inside the _____.

C. Case Study:

A scientist, Dr. Mehta, studied reproduction in two groups of animals:

- **Group A:** Animals that reproduce sexually, including cats, dogs, and elephants.
- **Group B:** Animals that reproduce asexually, such as hydra and amoeba.

After extensive research, Dr. Mehta observed the following:

- Offspring in **Group A** showed unique characteristics inherited from both parents.
- Offspring in **Group B** were genetically identical to their parent.
- **Group A** species adapted better to environmental changes compared to Group B.