

Chapter – 9

Reproduction in Animals

Reproduction is a process in which the organisms produce the young ones of their own kind.

- There are two modes by which animals reproduce. These are: (i) Sexual reproduction, and (ii) Asexual reproduction

Sexual Reproduction

- Reproduction resulting from the fusion of male and female gametes is called **sexual reproduction**.
- The reproductive organs in the female include ovaries, oviducts and uterus.
- The reproductive organs in male include testes, sperm ducts and penis.
- The ovary produces female gametes called ova and the testes produce male gametes called sperms.
- The fusion of ovum and sperm is called **fertilization**. The fertilized egg is called a **zygote**.
- Fertilization that takes place inside the female body is called internal fertilization. This is observed in human beings and other animals such as hens, cows and dogs.
- Fertilization that takes place outside the female body is called external fertilization. This is observed in frogs, fish, starfish, etc.
- The zygote divides repeatedly to give rise to an embryo.
- The embryo gets embedded in the wall of the uterus for further development.
- The stage of the embryo in which all the body parts are identifiable is called foetus.
- Animals such as human beings, cows and dogs which give birth to young ones are called **viviparous** animals.
- **Oviparous Animals:** Animals that lay eggs are called **oviparous** animals, e.g., frogs, lizards, butterflies, etc.
- The transformation of the larva into adult through drastic changes is called **metamorphosis**.

Asexual Reproduction

- The type of reproduction in which only a single parent is involved is called asexual reproduction.
- In hydra, new individuals develop from buds. This method of asexual reproduction is called **budding**.
- Amoeba reproduces by dividing itself into two. This type of asexual reproduction is called **binary fission**.