### Reproduction in Lower and Higher Animals



2

#### Can you recall?

- Enlist the various life processes. Name the life process which is responsible for continuation of the human race.
- What are the common methods of reproduction in the unicellular organisms like Englena, Amoeba and Paramoecium?
- What type of asexual reproduction occurs in Hydra?
- 4. What are the different methods of reproduction in animals?

We know that reproduction is one of the major life processes of any living organism. It helps in maintaining the continuity of the species. Reproduction is defined as the biological process of formation of new life forms from pre-existing similar life. It thus becomes a vital process which enables the species to survive over a long period, even though the individuals or organisms live naturally for a limited period of time i.e. their life span. In this chapter, we will learn about the various methods of reproduction in animals the human reproductive system, gametogenesis and fertilization, early embryology, parturition and reproductive health.

Reproduction in animals occurs mainly by two methods i.e. asexual and sexual.

#### 2.1 Asexual Reproduction in animals:

It is a common method among lower animals. It does not involve meiosis nor the gamete formation and fusion. The formation of progeny is by a single parent only and does not involve both the sexes, so it is called asexual reproduction. The progeny or daughter cells are genetically identical to the single parent and are also referred to as clones. The lower animals reproduce asexually by gemmule formation and budding.

#### Gemmule Formation:

Gentmule is an internal bud formed only in sponges. It has asexually produced mass or aggregation of dormant cells, the archaeocytes capable of developing into a new organism. The archaeocytes get coated by a thick resistant layer of secretion by amoebocytes. The gentmule is formed to overcome unfavourable conditions. On return of favourable conditions of water and temperature, the gentmules hatch and develop into a new individual. e.g. Spongilla.

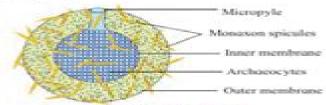


Fig. 2.1: Gemmule

#### Budding:

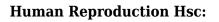
It is a simple method of asexual reproduction normally occuring in favourable conditions. It is seen in a variety of animals like coelenterates (Hydra and corals) and in some colonial ascidians. In Hydra, a small outgrowth (bud) is produced towards the basal end of the body.



Fig. 2.2 : Budding in Hydra

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