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 gernmule 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.

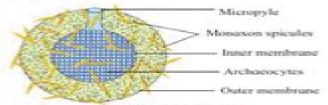


Fig. 2.1: Gemmule

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.

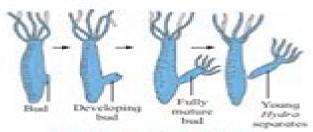
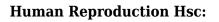


Fig. 2.2 : Budding in Hydra

Human Reproduction Hsc

RM Cervero



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Table of Contents Human Reproduction Hsc

- 1. Understanding the eBook Human Reproduction Hsc
 - The Rise of Digital Reading Human Reproduction Hsc
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Human Reproduction Hsc
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Human Reproduction Hsc
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Human Reproduction Hsc
 - Personalized Recommendations
 - Human Reproduction Hsc User Reviews and Ratings
 - Human Reproduction Hsc and Bestseller Lists
- 5. Accessing Human Reproduction Hsc Free and Paid eBooks
 - Human Reproduction Hsc Public Domain eBooks
 - Human Reproduction Hsc eBook Subscription Services
 - Human Reproduction Hsc Budget-Friendly Options
- 6. Navigating Human Reproduction Hsc eBook Formats

- o ePub, PDF, MOBI, and More
- Human Reproduction Hsc Compatibility with Devices
- Human Reproduction Hsc Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Human Reproduction Hsc
 - Highlighting and Note-Taking Human Reproduction Hsc
 - Interactive Elements Human Reproduction Hsc
- 8. Staying Engaged with Human Reproduction Hsc
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - $\circ\,$ Following Authors and Publishers Human Reproduction Hsc
- 9. Balancing eBooks and Physical Books Human Reproduction Hsc
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Human Reproduction Hsc
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Human Reproduction Hsc
 - Setting Reading Goals Human Reproduction Hsc
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Human Reproduction Hsc
 - Fact-Checking eBook Content of Human Reproduction Hsc
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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