

SCIENCE • CLASS 10

CHAPTER 7

How Do Organisms Reproduce?

NCERT SOLUTIONS



REPRODUCTION AND REPRODUCTIVE STRUCTURES

Exercise 1 — Budding occurs in:

- (a) Amoeba
- (b) Yeast
- (c) Plasmodium
- (d) Leishmania

Answer: (b) Yeast.

A small bud grows on the parent cell and can separate.

Exercise 2 — Which is not part of the human female reproductive system?

- (a) Ovary
- (b) Uterus
- (c) Vas deferens
- (d) Fallopian tube

Answer: (c) Vas deferens.

It carries sperm in the male reproductive system.

Exercise 3 — The anther contains:

- (a) Sepals
- (b) Ovules
- (c) Pistil
- (d) Pollen grains

Answer: (d) Pollen grains.

Pollen grains carry the male reproductive cells.

ADVANTAGES OF SEXUAL REPRODUCTION

Exercise 4 — What are the advantages of sexual reproduction over asexual reproduction?

Sexual reproduction combines genetic material from two parents. It usually produces more variation among offspring than asexual reproduction.

These differences increase the chance that some individuals can survive changes in the environment, such as new diseases or altered climate.

Over generations, useful variations can contribute to adaptation and evolution.

Variation improves possibilities for survival; it does not guarantee that every offspring survives.

FUNCTIONS OF THE TESTIS

Exercise 5 — What functions are performed by the testis in human beings?

1. Sperm production

The testes produce sperm, the male gametes. Sperm carry genetic material that can combine with that of an egg during fertilisation.

2. Hormone production

The testes secrete testosterone. It supports sperm formation and the development of male secondary sexual characteristics at puberty.

WHY MENSTRUATION OCCURS

Exercise 6 – Why does menstruation occur?

- Each cycle, the uterus develops a thick, blood-rich lining to support a possible pregnancy.
- If pregnancy is not established, the lining is no longer maintained. It breaks down and is shed with blood and mucus through the vagina.
- This shedding is menstruation. The uterine lining can then build up again in a later cycle.



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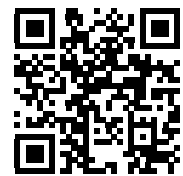


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