

CLASS 10

SCIENCE

REVISION NOTES

Revision Notes Class 10 Science Chapter 7 – How do Organisms Reproduce?

Part of the Class 10 Science Chapter 7 cluster: Solutions | Extra Questions (HOTS) | Revision Notes | Formulas Handbook | Class 10 Science book page. These Class 10 Science Chapter 7 notes are ideal for quick revision just before exams.

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Why reproduce: not needed for an individual's own survival, but essential for a species' continuity across generations.

Asexual modes: fission (binary – Amoeba/Leishmania; multiple – Plasmodium), budding (Yeast, Hydra), fragmentation (Spirogyra), regeneration (Planaria), spore formation (Rhizopus), vegetative propagation (roots/stems/leaves – e.g. potato eyes, Bryophyllum leaf buds).

Sexual reproduction: needs two parents/gametes (male + female), produces genetically varied offspring – variation is the raw material for evolution/adaptation.

Flower parts: stamen (filament + anther, male, produces pollen) and pistil/carpel (stigma + style + ovary with ovules, female). Bisexual flower = both in one flower (hibiscus); unisexual = only one (papaya, cucumber).

Human male system: testis (sperm + testosterone) → vas deferens → seminal vesicle + prostate (add fluid, forms semen) → urethra.

Human female system: ovary (egg + oestrogen) → fallopian tube (fertilisation site) → uterus (implantation/gestation) → vagina.

Menstrual cycle: ~28 days; uterine lining thickens to prepare for a fertilised egg; if fertilisation doesn't occur, lining sheds as menstruation.

Contraception: barrier (condom, diaphragm), hormonal (pills – prevent ovulation), IUD/copper-T (prevents implantation), surgical (vasectomy/tubectomy – permanent).

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Why This Chapter Matters

How do Organisms Reproduce? is one of the standard chapters in the CBSE/NCERT Class 10 Science syllabus and questions from it appear regularly in board exams, in formats ranging from 1-mark objective questions to longer 3-5 mark descriptive or numerical questions. Because the concepts here often build on earlier chapters (and feed into later ones), a solid grip on this chapter also makes the rest of the Science syllabus easier to follow.

How to Use These Notes

These revision notes are meant for quick recall in the last few days before an exam or unit test — they are not a substitute for first reading the full chapter and working through examples in the NCERT textbook. A good routine is: read the chapter once, solve the in-text and end-of-chapter questions using the linked Solutions, then come back to this page a day or two before the exam to refresh the key definitions and formulas without re-reading the whole chapter.

Class 10 Science Chapter 7 – Solutions and Important Questions

Need full answers or more practice? See the [Class 10 Science Chapter 7 Solutions](#) and [Class 10 Science Chapter 7 Extra Questions](#).

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