

Chapter 27: Reproductive System

Reproductive System

- **Reproductive System:** To produce offspring
 1. **Gametes:** Form specialised cells for sexual reproduction
 2. **Sexual Intercourse:** Bring gametes from the male and female together
 3. **Fertilisation:** Combine the genetic information contained within the male and female gametes
 4. **Gestation:** Support development of foetus
 5. **Parturition:** Birth of the baby
- Male vs. Female
 - **Gonads:** Homologous structure. Primary sex organs → produce gametes + sex hormones
 - **Sex Hormones:** Steroid hormones play vital roles in the development and function of reproductive organs + sexual behaviour
 - Testosterone in males
 - Estrogens and progesterone in females
 - **Homologous structures:** Share common origin during development
 - Reproductive Hormone Secretion
 - **HPG (Hypothalamic-pituitary-gonadal) Axis**
 - **Gonadotropin-Releasing Hormone (GnRH):** Stimulates testes or ovaries via effect on FSH and LH release
 - Released from hypothalamus
 - **Follicle-Stimulating Hormone (FSH) + Luteinising Hormone (LH):** Gonadotropins
 - Released from anterior pituitary
 - Act in both sexes
 - Stimulate gamete production and sex hormone secretion
 - **Sex Hormones**
 - **Puberty:** Period of life when the reproductive organs grow to adult size and become functional
 - Before puberty steroidal sex hormone levels are low → low levels suppress secretion of GnRH by the hypothalamus
 - During puberty → release of GnRH is rhythmic and pulse like → releases FSH and LH → stimulates release of more sex hormones from gonads
 - **Meiosis:** Basis of gamete production
 - Sequence
 - **Meiosis I:** homologous pairs of chromosomes separate from each other (reduction division) $2n \rightarrow n$
 - **Prophase I:** Replicated chromosomes pair up with homologous partners
 - **Synapsis:** Alignment of homologous pairs along the length of cell

Chapter 27 The Reproductive System

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Remmert**



Chapter 27 The Reproductive System:

Chapter 27 The Reproductive System Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Chapter 27 The Reproductive System**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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