

Read free Chapter 39 endocrine reproductive systems answer key (Read Only)

the endocrine organs in the reproductive systems are the ovaries and testes in females and males respectively the testes are paired ovoid glands that produce spermatozoa and the male hormones mainly testosterone the endocrine system is a network of glands and organs located throughout the body it is similar to the nervous system in that it plays a vital role in controlling and regulating the endocrine system consists of cells tissues and organs that secrete hormones as a primary or secondary function your endocrine system is in charge of creating and releasing hormones to maintain countless bodily functions endocrine tissues include your pituitary gland thyroid pancreas and others there are several conditions related to endocrine system issues usually due to a hormone imbalance or problems directly affecting the tissue state the primary sex hormones produced by the reproductive organs and placenta in contrast to the nervous system the endocrine system uses various chemical messengers called hormones that are released into the bloodstream january 24 2022 the main reproductive hormones estrogen testosterone and progesterone are instrumental in sexuality and fertility they are responsible for pregnancy puberty menstruation menopause sex drive sperm production and more these hormones are produced in the ovaries in females and testes in males the endocrine system uses hormones to control and coordinate your body's internal metabolism or homeostasis energy level reproduction growth and development and response to injury stress and environmental factors consider the following hormones and their role in the workings of the endocrine system request an appointment ovary thyroid gland adrenal gland pituitary gland human endocrine system group of ductless glands that regulate body processes by secreting chemical substances called hormones hormones act on nearby tissues or are carried in the bloodstream to act on specific target organs and distant tissues estrogen and progesterone circulate in the bloodstream almost entirely bound to plasma proteins only unbound estrogen and progesterone appear to be biologically active they stimulate the target organs of the reproductive system eg uterus vagina and the breasts endocrine effectors typically provide broadcast regulation of multiple tissues and organs simultaneously with specificity provided for by the expression of relevant receptors a change in environmental conditions for example often calls for an integrated response across many organ systems endocrine system any of the systems found in animals for the production of hormones substances that regulate the functioning of the organism such a system may range at its simplest from the neurosecretory involving one or more centres in the nervous system to the complex array of glands found in the human endocrine system testis summary testis in animals the organ that produces sperm the male reproductive cell and androgens the male hormones in humans the testes occur as a pair of oval shaped organs they are contained within the scrotal sac which is located directly behind the penis and in front of the anus contents hidden top structure major endocrine systems glands cells development adrenal glands thyroid gland parathyroid glands pancreas gonads male gonadal development female gonadal development pituitary gland function hormones cell signalling autocrine paracrine juxtacrine clinical significance disease other animals due to the differences between hormonal regulation of male and female reproductive systems we will take a more in depth look at each one independently beginning with the comparatively simple hormonal regulation of the male reproductive system male reproductive hormone regulation is largely controlled by the hypothalamus the endocrine system made up of all the body's different hormones regulates all biological processes in the body from conception through adulthood and into old age including the development of the brain and nervous system the growth and function of the reproductive system as well as the metabolism and blood sugar levels key terms the nervous system uses electrical impulses to collect process and respond to information about the environment nervous system cells the unique structure of neurons makes them specialized for receiving and transmitting electrical impulses throughout the body 3 min read an endocrinologist is a doctor who specializes in the endocrine system this network of glands inside your body creates hormones that help cells talk to each other the endocrine system topics achondroplasia see dwarfism acromegaly see growth disorders pituitary disorders addison disease adrenal gland cancer adrenal gland disorders adrenal insufficiency see addison disease amenorrhea see menstruation anatomy functions of the endocrine system chapter pp 658 687 cite this chapter download book pdf k brück 714 accesses 2 citations abstract the biological role of the endocrine system is closely 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