

**LESSON TITLE: ENDOCRINE SYSTEM (Part 2)****LEARNING OUTCOMES:**

Upon completion of this lesson, you can:

1. Identify the major hormones secreted from the other endocrine glands and its role in homeostasis;
2. Describe various conditions associated with problem in hormone production of some endocrine glands;
3. Recognize the functions of other hormones significant in homeostasis;
4. Identify the different disorders and diseases associated with endocrine system and its description; and,
5. List the major age-related changes that occur in the endocrine system.

Materials:

Book, pen and notebook

References:

VanPutte, C., Regan, J., & Russo, A. (2016). *Snoddy's essentials of anatomy & physiology* (10th ed.). New York, NY: McGraw-Hill Education.

LESSON REVIEW/REVIEW

The purpose of this activity is to refresh your memory regarding the endocrine system. You simply encode your choice of answer based from the stated description in each item. Have fun!


1. **Autocrine or Paracrine**. Local messengers secreted by one cell type, ex. histamine
2. **Lipid-soluble or Water-soluble**. Must circulate as free hormones
3. **Humoral or Neural or Hormonal**. Directly by blood-borne chemicals to hormones.
4. **Nuclear receptors or Membrane-bound receptors**. The hormone-receptor complex activates genes, which in turn activates the DNA to produce mRNA.
5. **Anterior or Posterior**. Releases endocrine hormones

MAIN LESSON

You must read & study the concepts and refer to figures/tables in Chapter 10 of the book.

Thyroid Gland – made up of two lobes, connected by isthmus; located on each side of trachea & highly vascular

- ✓ Function: To secrete **thyroid hormones** which binds to nuclear receptors in cells & regulate rate of metabolism.
- ✓ Thyroid hormones are synthesised and stored within **thyroid follicles** and attached to **thyroglobulin**.
- ✓ **Parafollicular cells / C cells** secrete the calcitonin
- ✓ Hormones are regulated by **TSH-releasing hormone (TRH)** from hypothalamus & **thyroid stimulating hormone (TSH)** from anterior pituitary gland (See process figure 10.16, page 250)

Gland	Hormone	Target Tissue	Response
	Thyroid hormones	All cells of the body	Increase metabolic rates, essential for several phases of growth and maturation
	Thyroxine, triiodothyronine		
	Calcitonin	Primarily bone	Decreases rate of bone breakdown; generates large increase in blood Ca^{2+} levels following a meal

Lab Manual Exercise 32

David Kirk



Lab Manual Exercise 32:

The Top Books of the Year Lab Manual Exercise 32 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year. Lab Manual Exercise 32 : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Lab Manual Exercise 32 : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and gripping novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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