

Study Guide

Biology 30 Unit A: Nervous and Endocrine Systems

This is a list of some things you'll want to be able to do for the unit exam. This is not a complete list of everything that will be on the exam. If you can check off most of these boxes without looking at your notes, you have a good opportunity to do well on the exam.

Unit A: Nervous and Endocrine Systems

Students must be able to:

Part I: Nervous System

- Recall definitions, such as: equilibrium, internal, external, physiological, homeostasis, disorder, nervous system, endocrine system, neuron, nerve, nerve impulse transmission, central nervous system (CNS), peripheral nervous system, reflex arc, sensory receptor, hormone, feedback, interactions, synapse.
- Explain how the nervous system controls physiological processes.
- Explain how the endocrine system contributes to homeostasis.
- Describe the structure and function of a neuron and myelin sheath.
- Explain how an action potential begins and is transmitted along a nerve.
- Explain all-or-none responses.
- Describe how signals are transmitted across synapses.
- Identify the role of neurotransmitters and chemicals such as: norepinephrine, acetylcholine, and cholinesterase.
- Identify main structures in the central and peripheral nervous systems and explain their functions in controlling both somatic (voluntary) and autonomic (involuntary) systems: cerebral hemispheres and lobes, pons, hypothalamus, cerebellum, medulla oblongata, spinal cord, sympathetic nervous system, parasympathetic nervous system, sensory-somatic nervous system.
- Give an example of how neurons are organized into nerves.
- Draw and label how a reflex arc (such as the patellar reflex) works.
- Identify the structures of the human eye and describe their functions: lens, cornea, retina, sclera, choroid, rods and cones, fovea centralis, pupil, iris, and optic nerve.
- Describe the structure and function of the inner ear's parts: tympanic, pinna, auditory canal, ossicles, cochlea, organ of Corti, auditory nerve, semicircular canals, and Eustachian tube.
- Explain other ways humans sense their environment and spatial orientation (smell, taste, touch receptors).
- Look at slides, dissections, and diagrams of brains, eyes, or ears, and identify structures in those organs.

Part II: Endocrine System

- Identify all major human endocrine glands: adrenal glands, islet cells of pancreas, parathyroid, thyroid, hypothalamus/pituitary.
- List the function of the hormones: TSH/thyroxine, calcitonin/P TH, ACTH/cortisol, glucagon/insulin, HGH, ADH, epinephrine, aldosterone. Explain how each keeps the body in homeostasis by feedback.
- Explain how thyroxine regulates metabolism.
- Explain how insulin, glucagon, and cortisol regulate blood sugar.
- Explain how HGH regulates growth.
- Explain how ADH regulates water content.
- Explain how aldosterone regulates sodium.
- Explain how the endocrine system allows humans to sense and respond to their internal environment.

Nervous And Endocrine Systems Study Guide Answers

S Marginson



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Table of Contents Nervous And Endocrine Systems Study Guide Answers

1. Understanding the eBook Nervous And Endocrine Systems Study Guide Answers
 - The Rise of Digital Reading Nervous And Endocrine Systems Study Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Nervous And Endocrine Systems Study Guide Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nervous And Endocrine Systems Study Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nervous And Endocrine Systems Study Guide Answers
 - Personalized Recommendations
 - Nervous And Endocrine Systems Study Guide Answers User Reviews and Ratings
 - Nervous And Endocrine Systems Study Guide Answers and Bestseller Lists
5. Accessing Nervous And Endocrine Systems Study Guide Answers Free and Paid eBooks
 - Nervous And Endocrine Systems Study Guide Answers Public Domain eBooks
 - Nervous And Endocrine Systems Study Guide Answers eBook Subscription Services

- Nervous And Endocrine Systems Study Guide Answers Budget-Friendly Options
- 6. Navigating Nervous And Endocrine Systems Study Guide Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Nervous And Endocrine Systems Study Guide Answers Compatibility with Devices
 - Nervous And Endocrine Systems Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nervous And Endocrine Systems Study Guide Answers
 - Highlighting and Note-Taking Nervous And Endocrine Systems Study Guide Answers
 - Interactive Elements Nervous And Endocrine Systems Study Guide Answers
- 8. Staying Engaged with Nervous And Endocrine Systems Study Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nervous And Endocrine Systems Study Guide Answers
- 9. Balancing eBooks and Physical Books Nervous And Endocrine Systems Study Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nervous And Endocrine Systems Study Guide Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Nervous And Endocrine Systems Study Guide Answers
 - Setting Reading Goals Nervous And Endocrine Systems Study Guide Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nervous And Endocrine Systems Study Guide Answers
 - Fact-Checking eBook Content of Nervous And Endocrine Systems Study Guide Answers
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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