

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

Don H. Hockenbury



Nervous And Endocrine Systems Study Guide Answers:

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