

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

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SOLUTION: The Case of the Newborn Nightmare The specimens were taken from some unusual skin lesions on three of our infants. I know that we need at least a routine culture and sensitivity with Gram stain. The Case of the Newborn Nightmare: Part V Nov 3, 2015 — Question: The Case of the Newborn Nightmare: Part V The nasal swabs taken from the hospital staff can be analyzed to determine the strain of S. Case Study- The Case of the Newborn Nightmare 1.what challenges Dr Maddison is facing? 2. What information does he have so far about the infection? 3. What are some possible causes of skin infections? List ... Chapter 21 Flashcards (review the NEWBORN NIGHTMARE case study). Exfoliative toxin from Staph. aureus. Fever, red raised blistering skin, peeling skin. Culture baby's nose and ... CASE TEACHING NOTES for "The Case of the Newborn ... by A Wade — CASE TEACHING NOTES for "The Case of the Newborn Nightmare" by Andrea Wade. Page 3. ANSWER KEY. Answers to the questions posed in the case ... Solved Newborn nightmare by Andrea Wade, what are the Oct 5, 2019 — Newborn nightmare is a case study done by Dr Andrea wade. Case study focuses on development of mysterious rashes among newborns. The Case of the Newborn Nightmare Oct 10, 2001 — Three newborns left in the care of "Dr. Mark Maddison" have developed a mysterious rash. Under increasing pressure from hospital ... Lab Practical Flashcards In regard to the "Case of the Newborn Nightmare," what was the name of the bacteria that caused the whole neighborhood to be sick? What is the common source ... The fighting man;: An illustrated history... by Coggins, Jack The fighting man;: An illustrated history of the world's greatest fighting forces through the ages ; Sold by ThriftBooks-Phoenix ; 978-1131691053. See all details ... An Illustrated History of the World's Greatest Fighting Appraises armies of the world, their equipment, leadership and battles, from antiquity to Vietnam. From inside the book ... The Fighting Man An Illustrated History Of The Worlds Greatest ... The Fighting Man An Illustrated History Of The Worlds Greatest Fighting Forces Through The Ages Pdf Pdf ... first African American armored unit to enter combat, ... Jack Coggins THE FIGHTING MAN An Illustrated History ... Jack Coggins THE FIGHTING MAN : An Illustrated History of the World's Greatest Fighting Forces through the Ages. 1st Edition 1st Printing. The fighting man an illustrated history of the world's ... Dec 4, 2016 — Read The fighting man an illustrated history of the world's greatest fighting forces through the ages by kiradiologija kiradiologija on ... The fighting man;: An illustrated... book by Jack Coggins Cover for "The fighting man;: An illustrated history of the world's greatest fighting ... By star and compass;: The story of navigation,. Jack Coggins. from ... The fighting man an illustrated history of the worlds greatest ... May 9, 2023 — Thank you very much for reading the fighting man an illustrated history of the worlds greatest fighting forces through the ages. an illustrated history of the world's greatest fighting forces ... Sep 9, 2010 — The fighting man; an illustrated history of the world's greatest fighting forces through the ages. by: Coggins, Jack. Publication date: 1966. The Fighting Man - An Illustrated History of the Worlds ... The Fighting Man - An Illustrated History of the Worlds Greatest Fighting Forces Through the Ages (Coggins). The Fighting Man - An Illustrated History of the ... The fighting man by Jack Coggins 1. Cover of: The fighting man. The fighting man: an illustrated history of the world's greatest fighting forces through

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