

Chapter 9 Nervous System Study Guide Answers

TNGS (also referred to as the theory of neural Darwinism) has roots going back to Edelman and Mountcastle's 1978 book, *The Mindful Brain – Cortical Organization and the Group-selective Theory of Higher Brain Function*, which describes the columnar structure of the cortical groups within the neocortex, and argues for selective processes operating among degenerate primary... 0282f78d6c As a psychopathological term, the first to publish on neurasthenia was Michigan alienist E. H. Van Deusen of the Kalamazoo asylum in 1869. Also in 1868, New York neurologist George Beard used the term in an article published in the *Boston Medical and Surgical Journal* to denote a condition with symptoms of fatigue, anxiety, headache, heart palpitations, high blood pressure, neuralgia, and depressed mood. Van Deusen associated the condition with farm... 0282f78d6c

Arthropod In order to keep growing, they must go through stages of moulting, a process by which they shed their exoskeleton to reveal a new one. They have ladder-like nervous systems, with paired ventral nerve cords running through all segments and forming **Arthropods** (AR-thrə-pod) are invertebrates in the phylum **Arthropoda**. They form an extremely diverse group of up to ten million species. They possess an exoskeleton with a cuticle made of chitin, often mineralised with calcium carbonate, a body with differentiated (metameric) segments, and paired jointed appendages. arthropods are generally built of repeated segments 0282f78d6c

Argument from poor design 328. Appleton. New York: D. p. "Nervous System Guide by the National Science Teachers Association. " Nervous System Guide by the National Science Teachers The argument from poor design, also known as the dysteleological argument, is an argument against the assumption of the existence of a creator God, based on the reasoning that any omnipotent and omnibenevolent deity or deities would not create organisms with the perceived suboptimal designs that occur in nature 0282f78d6c

Zoology The term is derived from Ancient Greek ζῷον, zōion ('animal'), and λόγος, logos ('knowledge', 'study'). non-human species. Physiology studies how, for example, the nervous, immune, endocrine, respiratory, and circulatory systems function and interact. **Developmental Zoology** (zoh-OL-ə-jee, UK also zoo-) is the scientific study of animals. Its studies include the structure, embryology, classification, habits, and distribution of all animals, both living and extinct, and how they interact with their ecosystems. Zoology is one of the primary branches of biology 0282f78d6c

History of neuroscience This led to a rapid increase From the ancient Egyptian mummifications to 18th-century scientific research on "globules" and neurons, there is evidence of neuroscience practice throughout the early periods of history. The early civilizations lacked adequate means to obtain knowledge about the human brain. According to Herodotus, during the first step of mummification: "The most perfect practice is to extract as much of the brain as possible with an iron. Early views on the function of the brain regarded it to be a form of "cranial stuffing" of sorts. Their assumptions about the inner workings of the mind, therefore, were not accurate. This proved that scientists could study nervous system function directly, not just indirectly. In ancient Egypt, from the late Middle Kingdom onwards, in preparation for mummification, the brain was regularly removed, for it was the heart that was assumed to be the seat of intelligence. during his experiments on frogs 0282f78d6c

The amphetamine molecule exists as two enantiomers, levoamphetamine and dextroamphetamine. Dextroamphetamine is the dextrorotatory, or 'right-handed', enantiomer and exhibits more pronounced effects on the central nervous system than levoamphetamine. Pharmaceutical dextroamphetamine sulfate is available as both a brand name and generic drug in a variety of dosage forms. Dextroamphetamine is sometimes prescribed... 0282f78d6c Haemolymph is the analogue of blood for most arthropods. An arthropod has an open circulatory system, with a body cavity called a haemocoel through which haemolymph circulates to the interior organs. Like their exteriors, the internal organs of arthropods are generally built of repeated segments. They have ladder-like nervous systems, with paired... 0282f78d6c

Systems biology However, the study of biological systems requires knowledge Systems biology is the computational and mathematical analysis and modeling of complex biological systems. It is a biology-based interdisciplinary field of study that focuses on complex interactions within biological systems, using a holistic approach (holism instead of the more traditional reductionism) to biological research. This multifaceted research domain necessitates the collaborative efforts of chemists, biologists, mathematicians, physicists, and engineers to decipher the biology of intricate living systems by merging various quantitative molecular measurements with carefully constructed mathematical models. In contrast to conventional biological studies that typically center. so arranged (systems; holism). Each provides useful insights and answers different questions. It represents a comprehensive method for comprehending the complex relationships within biological systems 0282f78d6c

Neural Darwinism many molecules that hold the animal nervous system together. Edelman's 1987 book *Neural Darwinism* introduced the public to the theory of neuronal group selection (TNGS), a theory that attempts to explain global brain function. N-CAM turned out to be an important molecule in guiding the development and differentiation Neural Darwinism is a biological, and more specifically Darwinian and selectionist, approach to understanding global brain function, originally proposed by American biologist, researcher and Nobel-Prize recipient Gerald Maurice Edelman (July 1, 1929 – May 17, 2014) 0282f78d6c

Common side effects of lisdexamfetamine include loss of appetite, anxiety, diarrhea, trouble sleeping, irritability, and nausea. Rare but serious side effects include mania, sudden cardiac death in those with underlying heart problems, and psychosis. It has a high potential for substance abuse. Serotonin syndrome may occur if used with certain other medications. Its use during pregnancy may result in harm to the baby and... 0282f78d6c

Neurasthenia [failed verification] Barbara Ehrenreich, restating James's view, considered Neurasthenia (from Ancient Greek νεῦρον (neuron) 'nerve' and ἀσθενής (asthenés) 'weak') is a term that was first used as early as 1829 for a mechanical weakness of the nerves. It became a major diagnosis in North America during the late nineteenth and early twentieth centuries after neurologist George Miller Beard reintroduced the concept in 1869. that it was actually dysautonomia, an 'imbalance' of the autonomic nervous system

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Lisdexamfetamine Lisdexamfetamine is taken by mouth. action reverses this process to release the active agent, the central nervous system (CNS) stimulant dextroamphetamine. Lisdexamfetamine was approved for Lisdexamfetamine, sold under the brand names Vyvanse and Elvanse among others, is a stimulant medication that is used as a treatment for attention deficit hyperactivity disorder (ADHD) in children and adults and for moderate-to-severe binge eating disorder in adults. Its effects generally begin within 90 minutes and last for up to 14 hours

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Although humans have always been interested in the natural history of the animals they saw around them, and used this knowledge to domesticate certain species, the formal study of zoology can be said to have originated with Aristotle. He viewed animals as living organisms, studied their structure and development, and considered their adaptations to their surroundings and the function of their parts...

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Dextroamphetamine Dextroamphetamine is a potent central nervous system (CNS) stimulant and enantiomer of amphetamine that is used in the treatment of attention deficit hyperactivity Dextroamphetamine is a potent central nervous system (CNS) stimulant and enantiomer of amphetamine that is used in the treatment of attention deficit hyperactivity disorder (ADHD) and narcolepsy. It is also used illicitly to enhance cognitive and athletic performance, and recreationally as an aphrodisiac and euphoriant. Dextroamphetamine is generally regarded as the prototypical stimulant

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List of The Hitchhiker's Guide to the Galaxy characters The various versions follow the same basic plot. (and in previous chapters of the third) were with previous incarnations of Agravag. Originally a 1978 radio comedy, it was later adapted to other formats, including novels, stage shows, comic books, a 1981 TV series, a 1984 text adventure game, and 2005 feature film. The first occurs in the novel The Hitchhiker's Guide to the Galaxy, The Hitchhiker's Guide to the Galaxy is a comedy science fiction franchise created by Douglas Adams. Throughout all versions, the series follows the adventures of Arthur Dent and his interactions with Ford Prefect, Zaphod Beeblebrox, Marvin the Paranoid Android, and Trillian. However, in many places, they are mutually contradictory, as Adams rewrote the story substantially for each new adaptation

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The argument is structured as a basic modus ponens: if "creation" contains many defects, then design appears an implausible theory for the origin of earthly existence. Proponents most commonly use the argument in a weaker way, however: not with the aim of disproving the existence of God, but rather as a reductio ad absurdum of the well-known argument from design (which suggests that living things appear too well-designed to have originated by chance, and so an intelligent God or...

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