

Chapter 48 Nervous System Study Guide Answers

Method of levels The therapist asks what they were just thinking or feeling, and as the patient talks about that the therapist continues to be alert for intrusion of background thoughts or feelings. **mechanism** is this innate capacity for reorganization in the client's nervous system, irrespective of the therapist's conceptual 'toolkit'. This process of "going up a level" continues until the higher-level sources of contradictory goals come into concurrent awareness from a yet higher level, allowing an apparently innate process of reorganization to resolve the conflict that was distressing the client. As the client talks about some matter, the therapist is alert to subtle interruptions indicating a shift of awareness to a perspective about that matter. **MOL enables resolution** The Method of Levels (MOL) is an application of perceptual control theory (PCT) to psychotherapy. A therapist using MOL does not make diagnoses or propose solutions or remedies c573712089

History of neuroscience Their assumptions about the inner workings of the mind, therefore, were not accurate. during his experiments on frogs. 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. 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. Early views on the function of the brain regarded it to be a form of "cranial stuffing" of sorts. 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. The early civilizations lacked adequate means to obtain knowledge about the human brain. This proved that scientists could study nervous system function directly, not just indirectly c573712089

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... c573712089 In organisms, a sensory organ consists of a group of interrelated sensory cells that respond to a specific type of... c573712089 Executive functions gradually develop and change across the lifespan of an individual... c573712089 It was proposed by Andy Clark and David Chalmers in "The Extended Mind" (1998). They describe the idea as "active externalism, based on the active role of the environment in driving cognitive processes." c573712089 Under Scale for the Assessment of Negative Symptoms used in clinical research, thought blocking is considered a part of alogia, and so is increased latency in response. c573712089 or poverty of content of speech. c573712089

Executive functions Stimulus-driven behavioral responses that are associated In cognitive science and neuropsychology, executive functions (collectively referred to as executive function and cognitive control) are a set of cognitive processes that support goal-directed behavior, by regulating thoughts and actions through cognitive control, selecting and successfully monitoring actions that facilitate the attainment of chosen objectives. Higher-order executive functions require the simultaneous use of multiple basic executive functions and include planning and fluid intelligence (e. Executive functions include basic cognitive processes such as attentional control, cognitive inhibition, inhibitory control, working memory, and cognitive flexibility. deficit hyperactivity disorder, autism, and a number of other central nervous system disorders. g. , reasoning and problem-solving) c573712089

The amount of speech may be normal but conveys little information because it is vague, empty, stereotyped, overconcrete, overabstract, or repetitive. c573712089 This condition is associated with schizophrenia... c573712089

Extended mind thesis Examples of such objects are written calculations, a diary, or a personal computer; in general, it concerns objects that store information. The thesis proposes that some objects in the external environment can be part of a cognitive process and in that way function as extensions of the mind itself. Danilov proposed that an embryo's nervous system (being a part of the external environment to the mother's nervous system) can take part in the mother's In philosophy of mind, the extended mind thesis says that the mind does not exclusively reside in the brain or even the body, but extends into the physical world. The hypothesis considers the mind to encompass every level of cognition, including the physical level c573712089

Alogia In this sense, the word is In psychology, alogia (; from Greek *α-*, "without", and *λογος*, "speech" + New Latin *-ia*) is poor thinking inferred from speech and language usage. alogia is inability to speak because of dysfunction in the central nervous system, found in mental deficiency and dementia c573712089

Learning observed as early as 32 weeks into gestation, indicating that the central nervous system is sufficiently developed and primed for learning and memory to occur Learning is the process of acquiring new understanding, knowledge, behaviors, skills, values, attitudes, and preferences. g. Some learning is immediate, induced by a single event (e. The ability to learn is possessed by humans, non-human animals, and some machines; there is also evidence for some kind of learning in certain plants. The changes induced by learning often last a lifetime, and it is hard to distinguish learned material that seems to be "lost" from that which cannot be retrieved. being burned by a hot stove), but much skill and knowledge accumulate from repeated experiences c573712089

There may be a general lack of additional, unprompted content seen in normal speech, so replies to questions may be brief and concrete, with less spontaneous speech. This is termed poverty of speech c573712089 or laconic speech. c573712089

Systems biology Each provides useful insights and answers different questions. In contrast to conventional biological studies that typically center. It represents a comprehensive method for comprehending the complex relationships within biological systems. so arranged (systems; holism). 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. However, the study of biological systems requires knowledge Systems biology is the computational and mathematical analysis and modeling of complex biological systems c573712089

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... c573712089 For the matter of personal identity... c573712089 Human learning starts at birth (it might even start before) and continues until death as a consequence of ongoing interactions between people and their environment. The nature and processes involved in learning... c573712089

Lisdexamfetamine 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. Lisdexamfetamine is taken by mouth c573712089

This is termed poverty of content c573712089

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. Dextroamphetamine is generally regarded as the prototypical stimulant. It is also used illicitly to enhance cognitive and athletic performance, and recreationally as an aphrodisiac and euphoriant c573712089

Sense Senses used by non-human organisms are even greater in variety and number. Although, in some cultures, five human senses were traditionally identified as such (namely sight, smell, touch, taste, and hearing), many more are now recognized. During sensation, sense organs collect various stimuli (such as a sound or smell) for transduction, meaning transformation into a form that can be understood by the brain. transduct sensory information from these organs towards the central nervous system, finally arriving at the sensory cortices in the brain, where sensory A sense is a biological system used by an organism for sensation, the process of gathering information about the surroundings through the detection of stimuli. Sensation and perception are fundamental to nearly every aspect of an organism's cognition, behavior and thought c573712089

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