

HUMAN REFLEX PHYSIOLOGY LAB

ANSWERS EXERCISE 23

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What reflexes classified as somatic reflexes include a? The most common categories of somatic reflexes include the stretch reflex, the inverse stretch reflex, and the withdrawal reflex. Somatic reflexes have myelinated axons connecting the CNS to the skeletal muscle cells.

What do the pupillary light reflex and the corneal reflex illustrate? The pupillary light reflex, the crossed-extensor reflex, and the corneal reflex illustrate the purposeful nature of reflex activity.

What is a reflex classified as an autonomic reflex? Somatic reflexes involve the muscles, skin, and responses to external stimuli. People are usually aware of somatic reflexes. Meanwhile, autonomic reflexes have to do with internal processes that people are unaware of. Several types exist, including the stretch or tendon, withdrawal, and inverse stretch reflexes.

Why is the reflex test important? The reflex exam is fundamental to the neurological exam and important to locating upper versus lower motor neuron lesions. There are five deep tendon reflexes and a number of superficial and visceral reflexes covered here.

What are the 4 somatic reflexes? In our discussion we will examine four major reflexes that are integrated within the spinal cord: the stretch reflex, the Golgi tendon reflex, the withdrawal reflex and the crossed extensor reflex.

What are the 4 types of reflexes in psychology?

What are the afferent and efferent pathways of the pupillary reflex? The pupillary light reflex neural pathway on each side has an afferent limb and two efferent limbs. The afferent limb has nerve fibers running within the optic nerve (CN II). Each efferent limb has parasympathetic nerve fibers traveling along the periphery of the oculomotor nerve (CN III).

Is the pupillary reflex monosynaptic or polysynaptic? Pupillary Dilatation and constriction is a POLYSYNAPTIC REFLEX.

What is the difference between an autonomic reflex and a somatic reflex? In summary, somatic reflexes involve skeletal muscles and are voluntary, while autonomic reflexes involve smooth muscle, cardiac muscle, and glands and are involuntary. Both types of reflexes are important for maintaining homeostasis in the body.

How many synapses occur in this reflex arc? In a typical reflex arc, there are three synapses....

What part of the reflex arc transmits afferent impulses to the CNS? Components of a reflex arc Receptor—the site of stimulus action. Sensory neuron—which transmits afferent impulses to the CNS.

What are the different types of reflex behavior in animals? Many reflexes of placental mammals appear to be innate. They are hereditary and are a common feature of the species and often of the genus. Reflexes include not only such simple acts as chewing, swallowing, blinking, the knee jerk, and the scratch reflex, but also stepping, standing, and mating.

Why is this reflex important? A reflex action is an automatic (involuntary) and rapid response to a stimulus, which minimises any damage to the body from potentially harmful conditions, such as touching something hot. Reflex actions are therefore essential to the survival of many organisms.

What is the difference between spinal and cranial reflexes? A spinal reflex involves only the spinal cord and does not go to the brain. This results in a much faster reflex. An example of this would be the patellar tendon reflex. A cranial reflex will go all the way to the brain and therefore, results in a slower reflex compared to

spinal reflexes.

What is normal Babinski? The Babinski reflex occurs after the sole of the foot has been firmly stroked. The big toe then moves upward or toward the top surface of the foot. The other toes fan out. Babinski reflex is one of the normal reflexes in infants and in children up to 2 years old. It disappears as the child gets older.

Which reflex is ipsilateral? The stretch and Golgi tendon reflexes work in tandem to control muscle length and tension. Both are examples of ipsilateral reflexes, meaning the reflex occurs on the same side of the body as the stimulus.

What is an automatic reflex? A reflex is an involuntary (say: in-VAHL-un-ter-ee), or automatic, action that your body does in response to something — without you even having to think about it. You don't decide to kick your leg, it just kicks.

What are polysynaptic reflexes? The withdrawal reflex is polysynaptic, meaning that, in addition to the sensory and motor neurons, this response utilizes interneurons which pass signals between the sensory and motor neurons, ultimately creating multiple synaptic connections.

Is heartbeat a reflex action? Processes such as breathing, digestion, and the maintenance of the heartbeat can also be regarded as reflex actions, according to some definitions of the term.

Why are reflexes so fast? Most reflexes don't have to travel up to your brain to be processed, which is why they take place so quickly. A reflex action often involves a very simple nervous pathway called a reflex arc.

Is sneezing a reflex action? Sneezing is a protective reflex, and is sometimes a sign of various medical conditions. Sneezing has been a remarkable sign throughout the history. In Asia and Europe, superstitions regarding sneezing extend through a wide range of races and countries, and it has an ominous significance.

What is an example of a Somatovisceral reflex? An example of a somato-visceral reflex is diarrhea due to back pain. A viscerosomatic reflex would be the opposite; a condition in an organ system alters nerve conduction so that the body is effected. An example of viscerosomatic pathway would be a kidney infection causing a back ache.

What is an example of a somatic reflex quizlet? For example - the head starts to tip forward as you fall asleep, muscles contract to raise the head. For example - knee jerk (patellar tendon reflex). The reflexive contraction of a muscle when its tendon is tapped. Activation of sensory endings in muscle spindles produces a reflex contraction.

What are the 5 components of a typical somatic reflex arc name and describe them? Reflex Arc Components. Most reflex arcs have five main components: receptors, sensory neurons, interneurons, motor neurons and muscles. However, not all reflexes use interneurons. Some connect sensory neurons directly to motor neurons and do not use interneurons.

What are somatic reflexes or autonomic reflexes? In summary, somatic reflexes involve skeletal muscles and are voluntary, while autonomic reflexes involve smooth muscle, cardiac muscle, and glands and are involuntary.

Unlock the Memory Palace: Learn Anything and Everything with a Smile

The human brain is an extraordinary organ capable of storing vast amounts of information. Unlock its full potential by utilizing the ancient technique of the memory palace, a mental construct that enhances learning and recall. Dive into the fascinating world of Shakespeare, Dickens, and Lewis, employing this powerful tool to master any subject.

What is the Memory Palace?

The memory palace is a visualization technique where you mentally create a familiar space, such as your house or a walk in the park. This space serves as a series of "rooms" or "stations," each representing a different category or area of knowledge you wish to master.

How to Construct a Memory Palace?

To create your own memory palace, begin by selecting a well-known location. Divide it into individual rooms or stations. Assign each room to a specific category or subject. For example, the living room could hold literature, the kitchen could contain historical facts, and the bathroom could store scientific concepts.

How to Store Information?

Once your memory palace is established, you can begin storing information. Associate each piece of information with a unique object, image, or person. Place these objects in the designated rooms or stations within your palace. For instance, to remember Shakespeare's Hamlet, you might associate the character with a ghost in the living room.

How to Retrieve Information?

To recall information, simply mentally walk through your memory palace, visiting the appropriate rooms. As you pass each object, image, or person, it will trigger the corresponding memory. This process is remarkably effective in improving both short-term and long-term recall.

The Power of a Smile

Incorporating a smile into your memory palace can significantly enhance its effectiveness. When you smile, your brain releases dopamine, a neurotransmitter that improves memory formation and retrieval. Simply smile as you place objects and associations in your memory palace. This simple act will boost your ability to learn and remember anything you desire.

The Gods of Eden: Unraveling the Mysteries of an Ancient Sumerian Text

Q: What is "The Gods of Eden"? A: "The Gods of Eden" is an ancient Sumerian text discovered in the 1970s by Zecharia Sitchin. It is believed to be a translation of a series of clay tablets found in the ruins of the ancient city of Nippur.

Q: What does the text claim about Eden? A: The text claims that Eden was not a physical garden on Earth, but rather a celestial realm inhabited by the Anunnaki, a race of advanced extraterrestrials who came to Earth from the planet Nibiru.

Q: Who were the Anunnaki? A: According to the text, the Anunnaki were a group of genetically engineered beings who came to Earth in search of gold, which was essential to their survival. They created humans as a slave race to mine the gold for them.

Q: Why were humans created? A: The text claims that the Anunnaki created humans as a result of a labor shortage. The Anunnaki needed to extract a large amount of gold quickly, but they did not have enough workers. They used genetic engineering to create humans, who were stronger and could work longer hours than the Anunnaki.

Q: What is the significance of "The Gods of Eden"? A: "The Gods of Eden" is a controversial text that challenges traditional views of human origins and the nature of the cosmos. It raises questions about the possible existence of extraterrestrial life and the role that advanced civilizations may have played in the history of humanity.

The Rest of the Robots: Robot 02, Isaac Asimov

Q: What is Robot 02?

A: Robot 02 is a fictional character in Isaac Asimov's Robot series. It is the second robot ever built, after Robot 01 (Robbie).

Q: What are Robot 02's abilities?

A: Robot 02 is a powerful robot with advanced capabilities. It possesses super-strength, a photographic memory, and the ability to learn and adapt.

Q: What is Isaac Asimov's role in Robot 02's creation?

A: Isaac Asimov, the renowned science fiction author, created Robot 02 in his short story "Runaround" (1942). Asimov introduced the Three Laws of Robotics through this character, which govern the behavior of all robots in the Robot series.

Q: What is Robot 02's significance in the Robot series?

A: Robot 02 sets the stage for the exploration of ethical and philosophical issues surrounding the development and use of artificial intelligence. It demonstrates the challenges and opportunities that arise when robots become more sophisticated and autonomous.

Q: What is the role of Robot 02 in modern-day discussions about AI?

A: Robot 02 remains an influential character in the discussion of AI ethics and safety. Its Three Laws of Robotics serve as a framework for considering the potential risks and benefits of advanced AI systems and the need to ensure their responsible development and deployment.

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