THE SPINAL CORD, REFLEXIES, AND THE SPINAL NERVIES











*ADAM.

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- How many Spinal Nerves (total) are present in the human body?
- Name the four regions and the amount of nerves present within that particular region.
 - 0
 - 0
 - 0
 - 0 ____

- Individual reflexes may vary in complexity.

 _____ involve simple neuronal pathways in which sensory neurons synapse directly with motor neurons.
- integrative centers, with one or more interneurons between the sensory and motor neurons.

The or musculocutaneous areas is/are somatic served by fibers from specific spinal nerves. A.Dermatones B.Pia Mater C.Dura Mater D. Cauda Equina

QUESTION 4

- Define, in your own words, the definition of a reflex.
 - ► Think:
 - **►** Stimulus
 - ▶ Threshold
- List the five basic components of a reflex arc.

QUESTION 5

What parts of the spinal cord do nerves of the limbs enter and leave?

- A. Cervical and lumbosacral enlargements
- B. Lumbar enlargement
- C. Cauda equina
- D. Cervical enlargement

While performing the 'Single Ladies' dance, Beyonce trips on her heel, twists one ankle by falling off 2 steps of the stage but manages to shift her weight back in order to discontinue the fall. What reflexes did she demonstrate to the audience? Be specific!

- A. Polysnaptic reflex and withdrawal reflex
- B. Monosynaptic and cross extensor reflex
- C. Withdrawal reflex and cross extensor reflex
- D.withdrawal and cross extensor reflex

Jeff has given a student in this class, a blow to the stomach. The victim is now feeling he/she can hardly breath. Which plexus has been disturbed?

Hint: near the pancreas

- A. Solar plexus
- B. Lumbar
- C. Sacral
- D. Cervical



A resident diagnosed a patient who improperly used their crutches, resulting in crutch paralysis. What nerve has been compressed and damaged?

Did he make the correct decision?

- A. Axillary nerve
- B. Ulnar Nerve (correct)
- C. Radial nerve
- D. Median Nerve

Name the space between the Dura Mater and the arachnoid mater; contains small amounts of serous fluid.

Name the space that separates the dura mater from the periosteum of the vertebral canal; contains blood vessels, connective tissue, and fat.

• We mentioned earlier that a reflex is a automatic response to a stimulus produced by a reflex arc. Name five major reflexes.

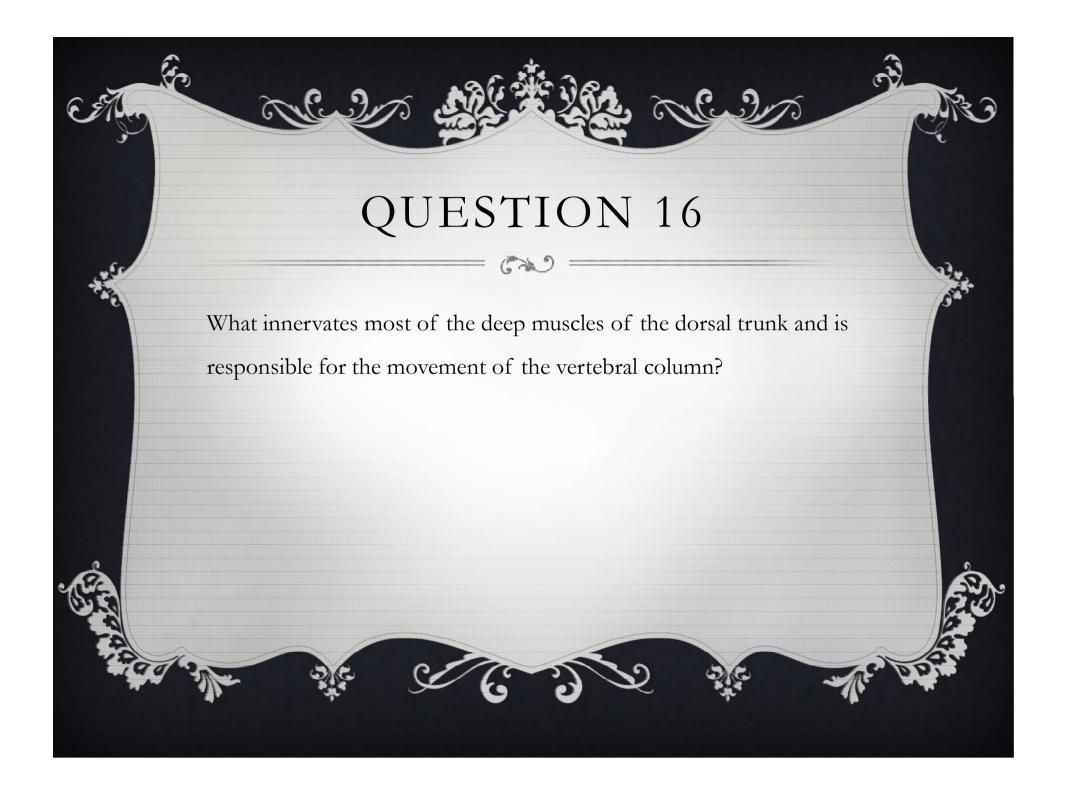
- Two part question
 - Name the five major plexuses formed by the spinal nerves.
 - Name five major nerves of the brachial plexus.

What is the space which contains the CSF, located between the Arachnoid Mater and the Pia Mater?

Conus Meullaris and numerous nerve extending inferior from it make up this Spinal Cord Component.

QUESTION 15

What are the deep clefts that partially separate the two halves of the Spinal Cord?



The ventral root enlarges to form the ganglion.

- a. true
- b. false

What is found in the central canal?

- a. Ependymal cells
- b. Sensory neurons
- c. CSF
- d. both b and c
- e. both a and c

Put these in order of how the reflex arc works:

- a. afferent neurons
- b. interneurons
- c. receptor
- d. efferent neurons
- e. effector

What role do spinal cord interneurons play in reflexive withdrawal from a painful stimulus?

- a. inhibit or excite motor neurons
- b. they innervate opposing pairs of muscles and control their activity
- c. they inhibit sensory neurons so that they no longer respond to the painful stimulus