

Practice Questions Ch 4, part 3: updated 10/2/22

1. The dorsal horn of the spinal cord receives sensory information the body.
A. TRUE B. FALSE
2. Which nerve pair is involved in parasympathetic decrease in heart rate and bronchoconstriction?
A. Vagus nerves B. Sacral nerves C. Lumbar nerves D. Thoracic nerves
3. Which nerve pair is involved in sympathetic decrease of urination and bowel movement?
A. Vagus nerves B. Sacral nerves C. Lumbar nerves D. Thoracic nerves
4. Which nerve pair is involved in the parasympathetic increase in GI tract peristalsis and gland secretion?
A. Vagus nerves B. Sacral nerves C. Lumbar nerves D. Thoracic nerves
5. Which nerve pair is involved in the parasympathetic increase in urination and defecation?
A. Vagus nerves B. Sacral nerves C. Lumbar nerves D. Thoracic nerves
6. Which nerve pair is involved in a sympathetic increase in heart rate, bronchodilation, and a decrease in GI tract activity?
A. Vagus nerves B. Sacral nerves C. Lumbar nerves D. Thoracic nerves

Match the description on the left with answer choices on the right for questions 7 -11. It is possible for answer choices to be used more than once.

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| 7. Will increase heart rate. | A. ACh binding to muscarinic cholinergic receptors. |
| 8. Will cause bronchodilation. | B. ACh binding to nicotinic cholinergic receptors. |
| 9. Will slow activity of GI tract smooth muscle. | C. Epinephrine binding to nicotinic cholinergic receptors. |
| 10. Will speed up activity of GI tract smooth muscle. | D. Epinephrine binding to β 2-adrenergic receptors. |
| 11. Will decrease heart rate. | E. Epinephrine binding to α -adrenergic receptors. |
| | F. Epinephrine binding to β 1-adrenergic receptors. |

12. Which spinal nerve plexus gives rise to the phrenic nerve, for motor control of the diaphragm?
A. Lumbar plexus B. Sacral plexus C. Cervical plexus D. Brachial plexus
13. Which spinal nerve plexus gives rise to the radial, musculocutaneous, and median nerves?
A. Lumbar plexus B. Sacral plexus C. Cervical plexus D. Brachial plexus
14. Which spinal nerve plexus gives rise to the fibular and tibial nerves?
A. Lumbar plexus B. Sacral plexus C. Cervical plexus D. Brachial plexus
15. Which of the following statements is false regarding differences between the dorsal spinal root and ventral spinal root (where spinal cord meets the spinal nerves)?
A. Dorsal roots contain a ganglion, or enlarged collection of neuron cell bodies.
B. Dorsal roots enter the dorsal section of the spinal cord.
C. Ventral roots enter the ventral section of the spinal cord.
D. Dorsal roots carry efferent (motor) information from the body to the spinal cord.
E. Ventral roots carry efferent (motor) information from the spinal cord to the body.

Ch 4 part 3 Answers:

1. A
2. A
3. C
4. A
5. B
6. D
7. F
8. D
9. E
10. A
11. A
12. C
13. D
14. B
15. D

How did you do?