Chapter 15 Autonomic Nervous System Study Guide

Please study Chapter 15 slides and textbook. Fill-in answers to all the questions so you can use this as a study guide for quizzes and exams.

- What is the function of the autonomic nervous system (ANS)? What effectors
  does the ANS control? ANS is in charge of your visceral body. Visceral
  means any involuntary organs such as; heart, lungs, and all smooth
  muscles.
- Give an example of an autonomic reflex initiated by stimulation of visceral receptors. The stomach secretes acid to aid in digestion. Stomach is the visceral receptor. Acid is the autonomic reflex.
- 3. List four differences between the somatic nervous system and the autonomic nervous system. SNS (Somatic): voluntary control, effectors (skeletal muscles), one division, and all neurons release ACh and the effect is always excitement. ANS (Autonomic): Involuntary control, effectors (visceral muscle/glands), two divisions, various neurotransmitters released and effect may be excitatory or inhibitory.
- 4. For each of the following, give a brief description of what the structure is, and where it is located:
  - Preganglionic fiber Myelinated (long) axons of preganglionic neurons that come from CNS via the cranial or spinal nerves.
  - 3. Postganglionic neuron Cell bodies housed in autonomic ganglia.
  - Postganglionic fiber Unmyelinated (short) axons of postganglionic neurons. (synapse with visceral effectors).
  - Preganglionic neuron Cell bodies that are located inside the brainstem or gray matter of the spine.
- Which division of the ANS is the "rest and digest" division? Which division is commonly referred to as the "fight or flight" division? Parasympathetic: rest and digest division. Sympathetic: fight or flight division.

# **Autonomic Nervous System Study Guide Answers**

**L** Reisser

**Autonomic Nervous System Study Guide Answers:** 

Decoding Autonomic Nervous System Study Guide Answers: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Autonomic Nervous System Study Guide Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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