STUDY GUIDE, CHAPTER 14 – AUTONOMIC NERVOUS SYSTEM

The student should be able to:
1. Describe the arrangement of the components involved in the somatic nerve impulse from the spinal cord to the effector and describe the arrangement of the components involved in the autonomic nerve impulse from the spinal cord to the effector. Be able to compare the differences. (This is illustrated in Fig. 14.2 page 527)

2. Make a statement regarding the sensory part of the autonomic nervous system.

3. Provide at least five functions of the autonomic nervous system regarding involuntary regulation of functions necessary to maintain life.

4. Identify the two divisions of the autonomic nervous system and provide a brief description of the type of functions each regulates.

5. Describe both the somatic nervous system and the autonomic nervous system and explain the differences between the two.

6. Provide the similarities and differences between a nuclei and a ganglion.

7. Identify what connects the sensory neuron to the motor neuron in a reflex reaction pathway.

8. Explain what the term somatic means.

9. Identify how many neurons there are in a somatic pathway and how many in an autonomic pathway.

10. Identify the two different divisions of the autonomic nervous system.

11. Describe the basic differences between the functions of the sympathetic and parasympathetic nervous systems.

12. Explain why the parasympathetic division is often referred to as the craniosacral division.

13. Describe which part(s) of the spine the sympathetic nervous system arises from and, which part(s) the parasympathetic nervous system arises from.

14. Explain what the terminal ganglion is in the parasympathetic division and where can they be found

15. Which system is known as the fight or flight system and which is known as the rest and digest system?

16. Identify the spinal levels the preganglionic fibers arise from in the sympathetic division.
18. Identify the three places the sympathetic, preganglion axons/fibers can go when they reach the sympathetic chain/trunk.