

Study Guide (S2017)  
Chapter 16 / Tortora & Derrickson  
Sensory, Motor, and Integrative Systems

1. What is the function of sensory receptor? Why are they said to be transducers?
2. What types of stimulus activate receptors?
3. What is the difference between general and special senses?
4. What are generator and receptor potentials?
5. Where are proprioceptors located? What do they do? Three locations? Signals sent where?
6. What are the three somatosensory projection pathways?
7. How many neurons are needed to link the precentral gyrus to a skeletal muscle?
8. What is motor control?
9. In motor control, what is the significance between intent and performance? What brain structures are involved with the intent and the performance?
10. What term describes a motor program within the spinal cord? Where are they located in the spinal cord?
11. What is the function of a muscle spindle? Where are they located?
12. What is a nociceptor and where are they not located?
13. Is pain a good or bad sensation? Explain. (Hint: neuropathy) What is the difference between somatic and visceral pain?
14. What type of chemicals can stimulate nociceptors? Where do these chemicals come from?
15. What is an analgesic? Examples: