

STUDY GUIDE
CHAPTER 2 - THE BRAIN, BIOLOGY AND BEHAVIOR

1. Explain the anatomy of a neuron including: dendrite, soma, axon, myelin sheath, axon terminal, terminal buttons and synapse
2. Explain what happens in a synapse
3. Differentiate between how information is transmitted within and neurons and between neurons.
4. Explain the purpose of neurotransmitters
5. Differentiate between the central and peripheral nervous system and how information is communicated within the body
6. Differentiate between the somatic, autonomic, sympathetic and parasympathetic nervous systems including what function they perform in the body
7. Explain the four different lobes of the brain and what each lobe controls
8. Explain the differences between types of information processed of the right hemisphere and left hemisphere of the brain
9. Compare and contrast the nervous system and the endocrine system
10. Differentiate between plasticity, cross laterality and neurogenesis
11. Outline the procedures for a CT, MRI, fMRI and PET Scan
12. Differentiate between the endocrine system and the nervous system and explain how they communicate with each other