Chapter 8 - The Nervous System

1) Which structure would help convert information from the short-term memory to a person's long-term memory?

2) This area of the cerebrum helps one to perform simple, repeating muscle activities.

3) Which brain structure serves as the autonomic center for the heart rate and digestive activities and relays sensory information to the thalamus?

4) What is a very deep groove that runs between the right and left cerebral hemispheres?

5) Which can be defined as several structures involved in emotions and memory?

6) What are functions of cerebrospinal fluid?

7) What region of the brain forms a band in the parietal lobes extending over the cortex from ear to ear and whose main function is to receive information from receptors in the skin, joints, and skeletal muscles?

8) Which structure is located under the cerebral hemispheres and is important in sensory experience, motor activity, stimulation of the cerebral cortex, and memory?

9) Which brain structure functions in homeostasis and influences blood pressure, heart rate, digestive activity, breathing rate, and other important physiological functions in the body?

10) Libby was in a terrible accident. When she recovered from all the apparent, external injuries, the once pleasant and happy-go-lucky person had become rude and very unfriendly. Which part of her cerebrum is most likely damaged?

11) Alexander has gone into a deep sleep, possibly a coma. His eyes respond to light and his other reflexes appear to work, but he will not respond to his name or really awaken. What part of his brain is most likely affected?

12) Eric’s girlfriend has become a little jealous and wants to know if he is still dreaming about his former girlfriend. When should she interrupt his sleep for an interrogation?

13) Laura has a rapidly growing brain tumor and must be put on life support because she can no longer maintain appropriate heart and respiratory rates. She is also having trouble maintaining blood pressure. The most likely area that the tumor is affecting is the ________.

14) Mary Ann has been diagnosed with a disease in which she cannot remember for very long that his relatives have been to see him. What parts of her brain are likely affected, given this information?
15) What are synthetically produced stimulants that have a similar appearance to the brain’s natural neurotransmitters?

16) Which of these drugs combats pain, reduces anxiety, and produces a feeling of euphoria?
   1. MDMA
   2. Flavonoid
   3. Morphine
   4. Ketamine

17) What are potential effects of alcohol abuse?

18) Which area of the brain functions as the sensory area for touch, vision, hearing, and olfaction as well as association areas for interpreting sensations, language, thinking, decision making, self-awareness, creativity and storing memories?