**Chapter 3**

**Biological Bases of Mental Life and Behavior**

**Questions**

1. The nervous system is comprised of three types of neurons:

a. sensory neurons, motor neurons, and interneurons

b. sensory neurons, spinal neurons, and interneurons

c. myelinated axons, dendrites, and unmyelinated axons and dendrites

d. sensory neurons, motor neurons, and efferent neurons

2. Connections between neurons occur at what are called

a. terminal buttons

b. nodes of Ranvier

c. receptors

d. synapses

3. Some people respond to MSG in Chinese food with neurological symptoms such as tingling and numbing, because the ingredient activates \_\_\_\_\_\_\_ receptors in their brains.

a. GABA

b. glutamate

c. dopamine

d. acetylcholine

4. Parkinson's disease results from degeneration of the \_\_\_\_\_\_\_-releasing cells of the substantia nigra.

a. acetylcholine

b. serotonin

c. dopamine

d. endorphin

5. The nervous system that prepares the body for fighting or fleeing in response to threats is the

a. sympathetic nervous system

b. parasympathetic nervous system

c. somatic nervous system

d. peripheral nervous system

6. The area of the hindbrain responsible for maintaining consciousness, regulating arousal levels, and modulating the activity of neurons throughout the central nervous system is the

a. medulla oblongata

b. cerebellum

c. reticular formation

d. thalamus

7. The structure within the limbic system that is especially involved in learning and remembering emotionally significant events is the

a. amygdala

b. hippocampus

c. septal area

d. basal ganglia

8. A brain-injured patient appears callous, grandiose, and boastful, and tends to make tactless comments. The area of the brain that is most likely damaged is the

a. frontal lobes

b. parietal lobes

c. occipital lobes

d. temporal lobes

9. On the average, males score higher than females on tests of

a. manual dexterity

b. verbal fluency

c. perceptual speed

d. spatial processing

10. Which type of twins share as much with each other, in terms of degree of relatedness, as they do with each of their parents?

a. monozygotic twins

b. dizygotic twins

c. trizygotic twins

d. identical twins

**Answers:**

1. a

2. d

3. b

4. c

5. a

6. c

7. a

8. a

9. d

10. b