

Name _____

Anatomy and Physiology
Unit 7b – Nervous System
Pre-Test

1. The outer membrane covering the brain is composed of fibrous connective tissues and is called the
 - A) dura mater
 - B) arachnoid mater
 - C) periosteum
 - D) pia mater
2. In the adult, the spinal cord ends
 - A) at the sacrum
 - B) between thoracic vertebrae 11 and 12
 - C) between lumbar vertebrae 1 and 2
 - D) at lumbar vertebra 5
3. Which of the following is involved in hearing a phone ring?
 - A) occipital lobe
 - B) parietal lobe
 - C) frontal lobe
 - D) temporal lobe
4. Which of the following is a function of the association areas in the frontal lobe?
 - A) recognizing your mother
 - B) planning a party
 - C) reading your textbook
 - D) understanding your friend's speech
5. The part of the brain stem that contains centers for cardiovascular control and sneezing is the:
 - A) cerebellum
 - B) midbrain
 - C) medulla oblongata
 - D) pons
6. The cranial nerves that control movement of the eyes are
 - A) optic, oculomotor, and facial
 - B) oculomotor, trochlear, and abducens
 - C) optic, oculomotor, and abducens
 - D) oculomotor, trigeminal and abducens
7. The cranial nerve responsible for equilibrium and hearing is the
 - A) vestibulocochlear
 - B) abducens
 - C) facial
 - D) trigeminal

8. The only cranial nerve that innervates structures below the neck is the
 - A) hypoglossal
 - B) glossopharyngeal
 - C) olfactory
 - D) **vagus**

9. The part of the nervous system that is most active when the body is at rest is the
 - A) reticular formation
 - B) **parasympathetic division**
 - C) somatic division
 - D) sympathetic division

10. Within the meninges, cerebrospinal fluid occupies the
 - A) lumbar enlargement
 - B) gray commissure
 - C) epidural space
 - D) **subarachnoid space**

11. In the case of a subdural hematoma resulting from a blow to the head, blood accumulates between the
 - A) dura mater and the skull
 - B) **dura mater and arachnoid mater**
 - C) pia mater and brain
 - D) arachnoid mater and brain

12. The part of the brain that functions to coordinate voluntary muscle movements is the:
 - A) cerebrum
 - B) brain stem
 - C) **cerebellum**
 - D) corpus callosum

13. Which of the following is most closely associated with the diencephalon?
 - A) **thalamus**
 - B) cerebral aqueduct
 - C) cerebral peduncles
 - D) red nucleus

14. The complex network of tiny islands of gray matter within the brain that activates the cerebral cortex to a state of wakefulness is the
 - A) dentate nucleus
 - B) **reticular formation**
 - C) limbic system
 - D) corpora quadrigemina

15. The phrenic nerves arise from the
 - A) **cervical plexuses**
 - B) brachial plexuses
 - C) lumbar plexuses
 - D) sacral plexuses