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Crash Course Anatomy & Physiology #11: Central Nervous System

Name: _____ Date: _____

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1. Damage to _____ can cause Broca's aphasia, affecting speech production.
2. Broca's _____ often preserves understanding of speech but impairs the ability to produce intelligible words.
3. Singing ability may be preserved in Broca's aphasia because it uses the right _____ of the brain.
4. The central nervous system includes the brain and _____.
5. The protective fluid that surrounds the brain is called _____ fluid.
6. The central nervous system originates from a structure called the _____ tube.
7. The three primary brain vesicles are the prosencephalon, mesencephalon, and _____.
8. The telencephalon eventually becomes the two cerebral _____.
9. The _____ controls basic muscle reflexes and communicates between the brain and body.
10. The brainstem consists of the midbrain, pons, and _____.
11. The midbrain is involved in reflexive responses to _____ stimuli.
12. The cerebrum contains the outer _____ matter and inner white matter.
13. The corpus callosum connects the left and right cerebral _____.
14. The _____ lobe governs planning, concentration, and voluntary movement.
15. The _____ lobe processes sensory input related to touch, pressure, and pain.

Crash Course Anatomy & Physiology #11: Central Nervous System KEY

1. Damage to **Broca's area** can cause Broca's aphasia, affecting speech production.
2. Broca's **aphasia** often preserves understanding of speech but impairs the ability to produce intelligible words.
3. Singing ability may be preserved in Broca's aphasia because it uses the right **hemisphere** of the brain.
4. The central nervous system includes the brain and **spinal cord**.
5. The protective fluid that surrounds the brain is called **cerebrospinal fluid**.
6. The central nervous system originates from a structure called the **neural tube**.
7. The three primary brain vesicles are the prosencephalon, mesencephalon, and **rhombencephalon**.
8. The telencephalon eventually becomes the two cerebral **hemispheres**.
9. The **spinal cord** controls basic muscle reflexes and communicates between the brain and body.
10. The brainstem consists of the midbrain, pons, and **medulla oblongata**.
11. The midbrain is involved in reflexive responses to **sensory** stimuli.
12. The cerebrum contains the outer **gray** matter and inner white matter.
13. The corpus callosum connects the left and right cerebral **hemispheres**.
14. The **frontal** lobe governs planning, concentration, and voluntary movement.
15. The **parietal** lobe processes sensory input related to touch, pressure, and pain.

15 Questions

Answer Key Included

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