

AP Psychology

Name: _____ Score: _____

1. The CED's position on heredity and environment is that they...

- ☐ compete, and the stronger one wins
- ☐ cannot be studied scientifically
- ☐ interact, and neither works alone
- ☐ act on different traits entirely

2. The central nervous system consists of...

- ☐ the brain only
- ☐ the brain and the spinal cord
- ☐ the sympathetic and parasympathetic branches
- ☐ all nerves outside the brain

3. The all-or-nothing principle means that a neuron...

- ☐ fires only in the brain
- ☐ never fires twice
- ☐ fires harder for a stronger stimulus
- ☐ fires completely or not at all

4. Breathing and heart rate are controlled mainly by the...

- ☐ cerebellum
- ☐ brain stem, including the medulla
- ☐ cerebral cortex
- ☐ corpus callosum

5. The roughly 24-hour sleep/wake cycle is called a _____ rhythm.

6. Converting a physical stimulus into a neural signal is called _____.

7. If identical twins raised apart are still similar on a trait, that points to heredity.

- ☐ True
- ☐ False

8. The parasympathetic branch prepares the body for fight or flight.

☐ True ☐ False

9. The gap between two neurons, crossed chemically, is the _____.

10. Split-brain surgery was developed as a treatment for severe epilepsy.

☐ True ☐ False

AP Psychology

1. **interact, and neither works alone**

Heredity and environment **interact**; the gene sets a range and conditions pick a point inside it.

2. **the brain and the spinal cord**

The CNS is the **brain** plus the **spinal cord**; everything else is peripheral.

3. **fires completely or not at all**

Strength is coded by the **rate** of firing and the **number** of neurons, not the force of one firing.

4. **brain stem, including the medulla**

The **brain stem**, including the **medulla**, controls basic functioning.

5. **circadian**

The **circadian rhythm** runs about 24 hours and is disrupted by jet lag and shift work.

6. **transduction**

Transduction is the conversion step; below **threshold** no signal is produced at all.

7. **True**

Same genes, different environments – so the remaining similarity is evidence for heredity.

8. **False**

That is the **sympathetic** branch. The parasympathetic branch calms the body afterwards.

9. **synapse**

Neurons do not touch; neurotransmitters carry the signal across the **synapse**.

10. **True**

Severing the **corpus callosum** treated epilepsy; the research findings came afterwards.