

1. Biological Bases of Behavior

Starter Quiz · 课前小测

AP Psychology

Name: _____ Score: _____

1. The CED's position on heredity and environment is that they...
 - ☐ compete, and the stronger one wins
 - ☐ interact, and neither works alone
 - ☐ act on different traits entirely
 - ☐ cannot be studied scientifically
2. The central nervous system consists of...
 - ☐ the brain and the spinal cord
 - ☐ the brain only
 - ☐ all nerves outside the brain
 - ☐ the sympathetic and parasympathetic branches
3. The all-or-nothing principle means that a neuron...
 - ☐ fires harder for a stronger stimulus
 - ☐ fires completely or not at all
 - ☐ fires only in the brain
 - ☐ never fires twice
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.