

Neuroscience of the Natural World

Neuroscience · Practice Test · 18 Questions

1. Which organ serves as the central control unit of the nervous system in vertebrates?

- A) Heart
- B) Brain
- C) Lungs
- D) Stomach

2. What is the primary function of neurons in an animal's body?

- A) Digesting food
- B) Filtering water
- C) Transmitting electrical signals
- D) Growing fur

3. Which part of a neuron is responsible for receiving signals from other neurons?

- A) Dendrites
- B) Axon
- C) Cell body
- D) Synapse

4. What is the protective outer layer of many animal brains called?

- A) Cortex
- B) Spine
- C) Scale
- D) Shell

5. Which animal is known for having a decentralized nervous system consisting of nerve nets?

- A) Lion
- B) Eagle
- C) Jellyfish
- D) Elephant

6. What chemicals allow neurons to communicate across the gap between them?

- A) Oxygen
- B) Neurotransmitters
- C) Water
- D) Glucose

7. Which sense do bats primarily use to navigate in the dark using their brain's processing power?

- A) Echolocation
- B) Color vision
- C) Thermal sensing
- D) Taste

8. In neuroscience, what is the gap between two neurons called?

- A) Tunnel
- B) Synapse
- C) Bridge
- D) Pathway

9. Which group of animals is known for having the most complex brain structures relative to their body size?

- A) Mammals
- B) Reptiles
- C) Amphibians
- D) Fish

10. What part of the brain is responsible for balance and coordination in birds?

- A) Cerebellum
- B) Brain stem
- C) Olfactory bulb
- D) Spinal cord

11. How do plants respond to stimuli without a nervous system?

- A) By using electrical pulses only
- B) By using chemical signaling
- C) By having a central brain
- D) By having a spine

12. Which nerve carries visual information from the eye to the brain?

- A) Optic nerve
- B) Auditory nerve
- C) Olfactory nerve
- D) Spinal nerve

13. What is the primary role of the spinal cord in an animal?

- A) Digesting protein
- B) Connecting the brain to the body
- C) Storing fat
- D) Reflecting light

14. Which aquatic animal is famous for having a large brain and high intelligence?

- A) Dolphin
- B) Goldfish
- C) Sea sponge
- D) Coral

15. What part of the brain is most involved in processing smells in a shark?

- A) Olfactory bulb
- B) Cerebrum
- C) Cerebellum
- D) Medulla

16. What type of signal travels along the axon of a neuron?

- A) Chemical signal
- B) Mechanical vibration
- C) Electrical impulse
- D) Magnetic wave

17. Which animal has a nervous system that allows it to change skin color rapidly?

- A) Octopus
- B) Goldfish
- C) Earthworm
- D) Snail

18. Which sense organ detects sound vibrations in the environment and sends signals to the brain?

- A) Ear
- B) Skin
- C) Tongue
- D) Nose