

Introduction to the Brain

Neuroscience · Answer Key · 18 Questions

1. What is the main organ of the human nervous system?

- A) Heart
- B) Brain**
- C) Liver
- D) Stomach

2. Which part of the brain is primarily responsible for balance and coordination?

- A) Cerebellum**
- B) Frontal lobe
- C) Brain stem
- D) Occipital lobe

3. What are the specialized cells that transmit electrical signals in the brain called?

- A) Blood cells
- B) Neurons**
- C) Skin cells
- D) Muscle cells

4. Which part of the brain controls your breathing and heartbeat?

- A) Cerebrum
- B) Cerebellum
- C) Brain stem**
- D) Hippocampus

5. The brain is protected by which hard structure?

- A) Ribcage
- B) Spine
- C) Skull**
- D) Pelvis

6. What is the gap between two neurons where information is passed called?

- A) Axon
- B) Synapse**
- C) Dendrite
- D) Nucleus

7. Which lobe of the brain is mainly responsible for processing visual information?

- A) Frontal lobe
- B) Parietal lobe
- C) Temporal lobe

D) Occipital lobe

8. What substance acts as a protective cushion for the brain and spinal cord?

A) Cerebrospinal fluid

- B) Blood plasma
- C) Saliva
- D) Mucus

9. Which part of the brain is largely responsible for memory and learning?

A) Hippocampus

- B) Pons
- C) Medulla
- D) Cerebellum

10. What connects the two hemispheres of the brain?

A) Corpus callosum

- B) Spinal cord
- C) Cerebral cortex
- D) Brain stem

11. Which sense is processed by the temporal lobe?

- A) Vision
- B) Touch

C) Hearing

- D) Smell

12. What is the 'wrinkly' outer layer of the brain called?

- A) Brain stem

B) Cerebral cortex

- C) Spinal cord
- D) Corpus callosum

13. Neurons communicate with each other using what kind of signals?

- A) Mechanical
- B) Thermal

C) Electrical and chemical

- D) Magnetic

14. Which part of the brain is responsible for voluntary movement and decision-making?

A) Frontal lobe

B) Occipital lobe

C) Brain stem

D) Cerebellum

15. What is the long, tail-like part of a neuron that sends messages away from the cell body?

A) Dendrite

B) Axon

C) Synapse

D) Nucleus

16. Approximately how much does an average adult human brain weigh?

A) 500 grams

B) 1.3 to 1.4 kilograms

C) 5 kilograms

D) 10 kilograms

17. Which system includes the brain and the spinal cord?

A) Digestive system

B) Central nervous system

C) Circulatory system

D) Muscular system

18. What are the branch-like structures of a neuron that receive signals?

A) Axons

B) Dendrites

C) Somas

D) Myelin