



# Practice Worksheet on Nervous System

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## Long Answer Questions

1. Describe the role of the brain in the central nervous system.
2. Explain the function of the spinal cord.
3. Differentiate between sensory and motor neurons.
4. Explain the role of the Cerebrum in the nervous system.
5. Describe the cerebellum's function in the nervous system.
6. What is the brainstem's role in the human body?
7. Explain the process of how information from the environment gets communicated to the brain.

8. Describe the autonomic nervous system and its two main branches.

## Multiple Choice Questions

1. Which type of neuron carries signals from the central nervous system to muscles?

- a) Sensory neurons
- b) Motor neurons
- c) Interneurons
- d) Glial cells

2. Which part of the brain is responsible for higher-level cognitive functions?

- a) Cerebrum
- b) Cerebellum
- c) Brainstem
- d) Spinal cord

3. What structure speeds up the transmission of nerve impulses?

- a) Reflex arc
- b) Synapse
- c) Myelin sheath
- d) Neurotransmitter

4. Which nervous system controls involuntary functions like heart rate?

- a) Somatic nervous system
- b) Autonomic nervous system
- c) Central nervous system
- d) Peripheral nervous system

5. Which part of the CNS is primarily involved in reflex actions?

- a) Brain
- b) Spinal cord
- c) Cranial nerves
- d) Peripheral nerves

6. What part of the neuron receives signals from other neurons?

- a) Axon
- b) Dendrite
- c) Cell body
- d) Myelin

7. Which nervous system controls voluntary muscle movements?

- a) Peripheral nervous system
- b) Central nervous system
- c) Somatic nervous system
- d) Autonomic nervous system

8. What is the general effect of the parasympathetic nervous system?

- a) Fight or flight
- b) Rest and digest
- c) Sympathetic
- d) Parasympathetic

# Answer Key

## Long Answer Questions - Expected Responses

1. Describe the role of the brain in the central nervous system.

Expected Answer: The central nervous system's main control center; it manages complex functions like thought, memory, and emotion.

2. Explain the function of the spinal cord.

Expected Answer: It's a crucial part of the CNS, responsible for reflexes and connecting the brain to the rest of the body.

3. Differentiate between sensory and motor neurons.

Expected Answer: Sensory neurons carry signals from sensory organs to the CNS; motor neurons transmit signals from the CNS to muscles and glands.

4. Explain the role of the Cerebrum in the nervous system.

Expected Answer: The cerebrum is responsible for higher-level cognitive functions, like thinking and learning.

5. Describe the cerebellum's function in the nervous system.

Expected Answer: The cerebellum coordinates movement and balance, ensuring smooth and coordinated muscle activity.

6. What is the brainstem's role in the human body?

Expected Answer: The brainstem regulates essential life functions, such as breathing and heart rate.

7. Explain the process of how information from the environment gets communicated to the brain.

Expected Answer: The process of the brain receiving, interpreting, and reacting to information from the environment is done using sensory organs.

8. Describe the autonomic nervous system and its two main branches.

Expected Answer: The autonomic nervous system regulates involuntary functions such as heart rate, digestion, and breathing. It is divided into sympathetic and parasympathetic branches.

## Multiple Choice Questions – Correct Answers

1. Which type of neuron carries signals from the central nervous system to muscles?

Correct Answer: Motor neurons

2. Which part of the brain is responsible for higher-level cognitive functions?

Correct Answer: Cerebrum

3. What structure speeds up the transmission of nerve impulses?

Correct Answer: Myelin sheath

4. Which nervous system controls involuntary functions like heart rate?

Correct Answer: Autonomic nervous system

5. Which part of the CNS is primarily involved in reflex actions?

Correct Answer: Spinal cord

6. What part of the neuron receives signals from other neurons?

Correct Answer: Dendrite

7. Which nervous system controls voluntary muscle movements?

Correct Answer: Somatic nervous system

8. What is the general effect of the parasympathetic nervous system?

Correct Answer: Rest and digest