

### **What is the main function of a neuron**

- A. To transmit electrical signals
- B. To produce hormones
- C. To store memories
- D. To regulate blood flow

**Answer: A. To transmit electrical signals**

### **What is the role of Schwann cells in the nervous system**

- A. Schwann cells produce myelin sheath around axons
- B. Schwann cells produce hormones in the nervous system
- C. Schwann cells regulate blood flow in the nervous system
- D. Schwann cells help with neurotransmission

**Answer: A. Schwann cells produce myelin sheath around axons**

### **What are the two main types of nervous system cells**

- A. Muscles and bones
- B. Red blood cells and white blood cells
- C. Neurons and glial cells
- D. Heart cells and lung cells

**Answer: C. Neurons and glial cells**

### **What is the purpose of myelin sheath in neurons**

- A. Provides nutrients to neurons

- B. Insulates and speeds up nerve impulses
- C. Regulates hormone production
- D. Helps with muscle contraction

**Answer: B. Insulates and speeds up nerve impulses**

**What is the function of dendrites in a neuron**

- A. Receive incoming signals
- B. Store energy
- C. Initiate action potential
- D. Release neurotransmitters

**Answer: A. Receive incoming signals**

**Which type of nervous system cell is responsible for producing myelin in the central**

- A. Astrocytes
- B. Microglia
- C. Oligodendrocytes
- D. Neurons

**Answer: C. Oligodendrocytes**

**What is the function of the axon terminal in a neuron**

- A. Store genetic information
- B. Regulate cell metabolism
- C. Release neurotransmitters
- D. Receive sensory input

**Answer: C. Release neurotransmitters**

**What is the purpose of neurotransmitters in the nervous system**

- A. To regulate heart rate
- B. To store memories
- C. To digest food
- D. To transmit signals between neurons

**Answer: D. To transmit signals between neurons**

**What is the function of microglial cells in the nervous system**

- A. Supporting neuron communication
- B. Regulating blood flow
- C. Producing myelin
- D. Immune response in the brain

**Answer: D. Immune response in the brain**

**What is the main function of oligodendrocytes in the nervous system**

- A. To store memories
- B. To transmit electrical signals
- C. To regulate blood flow in the brain
- D. To produce myelin

**Answer: D. To produce myelin**

## **What is the role of astrocytes in the nervous system**

- A. Generate electrical impulses
- B. Produce myelin sheath around neurons
- C. Provide structural support and regulate neurotransmitter levels
- D. Transport oxygen to the brain

**Answer: C. Provide structural support and regulate neurotransmitter levels**

## **What is the function of satellite cells in the peripheral nervous system**

- A. Regulate neurotransmitter release
- B. Support and protect neurons
- C. Produce myelin sheath
- D. Transmit nerve impulses

**Answer: B. Support and protect neurons**

## **What is the main function of ependymal cells in the nervous system**

- A. Produce cerebrospinal fluid
- B. Produce myelin
- C. Conduct nerve impulses
- D. Maintain blood-brain barrier

**Answer: A. Produce cerebrospinal fluid**

## **What is the purpose of the blood-brain barrier in the nervous system**

- A. To produce red blood cells in the brain

- B. To transmit electrical signals in the brain
- C. To protect the brain from harmful substances
- D. To regulate blood pressure in the brain

**Answer: C. To protect the brain from harmful substances**

### **What is the function of interneurons in the nervous system**

- A. To control muscle movement
- B. To regulate hormone production
- C. To relay signals between sensory and motor neurons
- D. To store long-term memories

**Answer: C. To relay signals between sensory and motor neurons**

### **What is the role of neuroglia in the nervous system**

- A. Regulate blood flow
- B. Produce myelin sheath
- C. Support and protect neurons
- D. Transmit nerve impulses

**Answer: C. Support and protect neurons**

### **What is the main function of neurovascular cells in the nervous system**

- A. To transmit nerve impulses
- B. To support and maintain the blood-brain barrier
- C. To produce myelin sheath
- D. To regulate neurotransmitter release

**Answer: B. To support and maintain the blood-brain barrier**

**What is the purpose of the sodium-potassium pump in neurons**

- A. Control body temperature
- B. Maintain resting membrane potential
- C. Facilitate muscle contraction
- D. Regulate blood pressure

**Answer: B. Maintain resting membrane potential**

**What is the function of the nodes of Ranvier in a myelinated neuron**

- A. Nodes of Ranvier are involved in cell division.
- B. Nodes of Ranvier allow for the rapid conduction of action potentials.
- C. Nodes of Ranvier produce myelin.
- D. Nodes of Ranvier store neurotransmitters.

**Answer: B. Nodes of Ranvier allow for the rapid conduction of action potentials.**

**What is the main function of the cell body in a neuron**

- A. Production of neurotransmitters
- B. Conduction of electrical impulses
- C. Protection of the nucleus
- D. Integration of incoming signals

**Answer: D. Integration of incoming signals**

