

2.1 The Nervous System and Its Components

Objectives

Learning Objectives

1. Describe the structure and function of the nervous system.
2. Explain the role of neurons in transmitting information.
3. Identify the major components of the brain and spinal cord.
4. Discuss how the nervous system controls and coordinates the body's activities.

Introduction

1. The nervous system is the body's communication system, allowing different parts of the body to work together.
2. It consists of the brain, spinal cord, and peripheral nerves.
3. The brain is the central control center, processing information and sending out instructions.
4. The spinal cord is a long, thin bundle of nerve fibers that carries messages between the brain and the rest of the body.

Structure and Function

1. Neurons are the basic units of the nervous system, responsible for transmitting electrical signals.
2. They consist of a cell body (soma), dendrites, and an axon.
3. Dendrites receive signals from other neurons, while the axon carries the signal away.
4. The axon is covered by a myelin sheath, which speeds up the transmission of the signal.



QUESTION

Which of the following is not a function of the skeletal system?

- Storage of calcium and phosphorus
- Production of red blood cells
- Support of the body
- Production of white blood cells

ANSWER

- D** Production of white blood cells
- RATIONALE:**
- The skeletal system has several functions, including support of the body, production of red blood cells, and storage of calcium and phosphorus. Production of white blood cells is not a function of the skeletal system.



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