

- 8 What are the cells that transmit the nerve signals from the skin to the central nervous system?
 (a) Sensory neurons. (b) Motor neurons. (c) Interneurons. (d) Neuroglia.
- 9 Which of the following choices represents the connection between the nerve cells' parts inside the central nervous system?

	Nerve endings of cells	Dendrites of cells
(a)	Motor	Interneurons
(b)	Interneurons	Motor
(c)	Motor	Sensory
(d)	Interneurons	Sensory

The membrane potential and the nerve impulse transmission

- 10 What explains the importance of the resting potential in the nerve cell?
 (a) It prevents the cell's response.
 (b) It keeps the membrane ready to transmit the impulse when a stimulus occurs.
 (c) It increases the permeability of proteins to outside.
 (d) It increases the membrane's permeability to the entry of sodium ions.

- 11 According to the values of the ions illustrated in the opposite table, what is the state of this cell?

	Inside the nerve cell membrane	Outside the nerve cell membrane
Na ⁺	15 mM	145 mM
K ⁺	150 mM	5 mM

- (a) Rest state.
 (b) The end of the depolarization state.
 (c) The beginning of repolarization state.
 (d) Hyperpolarization state.

- 12 Which of the following figures represents the action of sodium-potassium pump?

