

Self-test questions

Option A (SL)

- 1 Which of the following best describes the plasticity of the nervous system?
 - A In an embryo, immature neurons can migrate to new positions.
 - B In an embryo, axons grow in response to chemical stimuli.
 - C The nervous system is able to change with experience.
 - D The nervous system only develops in the embryo and fetus.
- 2 Which of the following is controlled by the medulla oblongata of the human brain?
 - A breathing and homeostasis
 - B memory and recall
 - C movement and balance
 - D nervous and endocrine systems
- 3 What is released from the posterior lobe of the pituitary gland?
 - A releasing factors that control the anterior lobe
 - B hormones produced by the hypothalamus
 - C hormones produced by the pituitary gland
 - D FSH and LH
- 4 Which of the following are found in the human sensory system?
 - i mechanoreceptors
 - ii chemoreceptors
 - iii rods
 - iv hair cells
 - A i and ii only
 - B ii and iii only
 - C i, ii and iii only
 - D i, ii, iii and iv
- 5 Information from the right field of vision is sent:
 - A to the left part of the visual cortex via the optic nerve
 - B to the right part of the visual cortex via the optic nerve
 - C to both parts of the visual cortex
 - D to the left part of the visual cortex via the auditory nerve
- 6 How does innate behaviour develop in an animal?
 - A independently of the environment and learned from parents
 - B independently of the environment and inherited from parents
 - C as a result of the environment and learned from parents
 - D as a result of the environment and inherited from parents
- 7 A reflex arc involves which sequence of neurons?
 - A sensory neuron, relay neuron, motor neuron
 - B relay neuron, sensory neuron, motor neuron
 - C sensory neuron, motor neuron, relay neuron
 - D motor neuron, relay neuron, sensory neuron
- 8 A hand-reared male bird that never hears an adult song cannot find a mate because:
 - A females sense that he is not a wild bird
 - B he can only learn the song patterns of his species while he is young
 - C he cannot defend a territory
 - D females regard him as a juvenile because he cannot sing