

Control & Coordination



Multiple Choice Questions (MCQs) on Control and Coordination in Animals

1. The basic functional unit of the nervous system is:
 - a) Axon
 - b) Dendrite
 - c) Neuron
 - d) Synapse
2. Which part of the neuron receives signals from other neurons?
 - a) Axon
 - b) Cell body
 - c) Dendrite
 - d) Synapse
3. The long thread-like structure of a neuron that transmits impulses away from the cell body is called:
 - a) Axon
 - b) Dendrite
 - c) Synapse
 - d) Myelin sheath
4. The junction between two neurons is known as:
 - a) Synapse
 - b) Axon terminal
 - c) Dendrite
 - d) Neurotransmitter
5. What is the voltage across the membrane of a resting neuron called?
 - a) Action potential
 - b) Resting potential
 - c) Depolarization
 - d) Repolarization
6. The part of the brain responsible for coordinating voluntary movements and maintaining posture is the:
 - a) Cerebrum
 - b) Cerebellum
 - c) Medulla oblongata
 - d) Hypothalamus
7. Which part of the brain acts as a relay station for sensory information?
 - a) Cerebellum
 - b) Hypothalamus
 - c) Thalamus
 - d) Medulla oblongata
8. The region of the brain responsible for higher mental functions like thinking and memory is:
 - a) Cerebellum
 - b) Cerebrum
 - c) Brainstem

- d) Mid-brain
9. The part of the brain that controls vital involuntary functions like heart rate and breathing is the:
- a) Cerebellum
 - b) Pons
 - c) Mid-brain
 - d) Medulla oblongata
10. Which part of the brain is involved in vision, hearing, motor control, sleep/wake cycles, and arousal?
- a) Fore-brain
 - b) Mid-brain
 - c) Hind-brain
 - d) Cerebrum
11. The neural pathway that mediates a reflex action is called:
- a) Synapse
 - b) Reflex Arc
 - c) Axon
 - d) Neurotransmitter
12. Glands that secrete hormones directly into the bloodstream are known as:
- a) Endocrine glands
 - b) Exocrine glands
 - c) Sweat glands
 - d) Salivary glands
13. The part of the brain that regulates homeostasis, including temperature, hunger, and thirst, is the:
- a) Cerebellum
 - b) Hypothalamus
 - c) Thalamus
 - d) Medulla oblongata
14. The spinal cord is primarily involved in:
- a) Processing sensory information
 - b) Coordinating reflex actions
 - c) Maintaining posture and balance
 - d) Regulating hormonal functions
15. The brain region that includes the cerebrum, thalamus, and hypothalamus is the:
- a) Fore-brain
 - b) Mid-brain
 - c) Hind-brain
 - d) Brainstem

Answer Key

1. c) Neuron
2. c) Dendrite
3. a) Axon
4. a) Synapse
5. b) Resting potential
6. b) Cerebellum
7. c) Thalamus
8. b) Cerebrum
9. d) Medulla oblongata

- 10. b) Mid-brain
- 11. b) Reflex Arc
- 12. a) Endocrine glands
- 13. b) Hypothalamus
- 14. b) Coordinating reflex actions
- 15. a) Fore-brain