

1. Which part of the neuron receives impulses from other neurons?

- a) Axon
- b) Dendrite
- c) Cell body
- d) Myelin sheath

Ans. Dendrite

2. The part of the brain responsible for maintaining balance and posture is:

- a) Cerebrum
- b) Cerebellum
- c) Medulla
- d) Hypothalamus

Ans. Cerebellum

3. Which hormone is secreted by the pancreas to regulate blood sugar levels?

- a) Adrenaline
- b) Insulin
- c) Thyroxine
- d) Progesterone

Ans. Insulin

4. Reflex actions are:

- a) Voluntary and slow
- b) Involuntary and fast
- c) Voluntary and fast
- d) Involuntary and slow

Ans. Involuntary and fast

5. The gap between two neurons is called:

- a) Synapse
- b) Axon terminal
- c) Dendrite
- d) Nucleus

Ans. Synapse

6. Which of the following is a plant hormone responsible for cell elongation?

- a) Cytokinin
- b) Auxin
- c) Gibberellin
- d) Ethylene

Ans. Auxin

7. Adrenaline is secreted by:

- a) Thyroid
- b) Adrenal glands
- c) Pituitary
- d) Pancreas

Ans. Adrenal gland

8. Which part of the brain controls voluntary actions?

- A) Medulla
- b) Cerebellum
- c) Cerebrum
- d) Spinal cord

Ans. Cerebrum

9. Which hormone controls the water balance in the human body?

- A) ADH
- b) Insulin
- c) Glucagon
- d) Thyroxine

Ans. ADH

10. Phototropism in plants is caused by:

- a) Gibberellin
- b) Cytokinin
- c) Auxin
- d) Abscissic acid

Ans. Auxin

11. Which type of neuron carries impulses from the CNS to muscles?

- A) Sensory neuron
- b) Motor neuron
- c) Interneuron
- d) Both a & b

Ans. Motor neuron

12. Identify the correct pathway of a reflex action: a) Stimulus → Brain → Motor neuron → Effector

- b) Stimulus → Sensory neuron → Spinal cord → Motor neuron → Effector
- c) Stimulus → Motor neuron → Effector
- d) Stimulus → Sensory neuron → Brain → Effector

Ans. b

13. Which endocrine gland is called the “master gland”? a) Thyroid

- b) Pituitary
- c) Adrenal
- d) Pancreas

Ans. Pituitary

14. Which hormone is responsible for ‘ripening of fruits’ in plants?

- A) Auxin

- b) Gibberellin
- c) Ethylene
- d) Cytokinin

Ans. Ethylene

15. Which part of the neuron is covered by the myelin sheath?

- A) Dendrites
- b) Axon
- c) Cell body
- d) Synapse

Ans. Axon

Section B: Reason-Assertion (RA) Questions

1. Assertion (A): Reflex actions are faster than voluntary actions. Reason (R): Reflex actions involve the brain for processing.

- A) Both A and R are true, and R is the correct explanation of A
- b) Both A and R are true, but R is not the correct explanation of A
- c) A is true, R is false
- d) A is false, R is true

2. Assertion (A): Insulin lowers blood sugar levels. Reason (R): Insulin converts glucose into glycogen in the liver.

- A) Both A and R are true, and R is the correct explanation of A
- b) Both A and R are true, but R is not the correct explanation of A
- c) A is true, R is false
- d) A is false, R is true

3. Assertion (A): Cerebellum helps in coordination of muscular activities. Reason (R): Cerebellum is a part of the hindbrain.

- A) Both A and R are true, and R is the correct explanation of A
- b) Both A and R are true, but R is not the correct explanation of A
- c) A is true, R is false
- d) A is false, R is true

4. Assertion (A): Auxins promote phototropism in plants. Reason (R): Auxins are uniformly distributed in all parts of the plant.

- A) Both A and R are true, and R is the correct explanation of A
- b) Both A and R are true, but R is not the correct explanation of A
- c) A is true, R is false
- d) A is false, R is true

5. Assertion (A): Adrenaline prepares the body for fight or flight response. Reason (R): Adrenaline increases heart rate and dilates airways.

- A) Both A and R are true, and R is the correct explanation of A
- b) Both A and R are true, but R is not the correct explanation of A
- c) A is true, R is false
- d) A is false, R is true