

Chapter-2

Worksheet-2

1. Which among them is a reflex arc
 - (a) Sensory neuron – Motor neuron – Relay neuron
 - (b) Motor neuron – relay – Motor neuron
 - (c) Sensory – relay – motor neuron
 - (d) Relay – Motor –Sensory neuron

2. While touching a hot plate, a reflex action is seen what is the effect in it
 - (a) Skin
 - (b) Spinal cord
 - (c) Muscles
 - (d) Brain

3. Which of the following statements is correct about receptors?
 - (a) Gustatory receptors detect taste while olfactory receptors detect smell
 - (b) Both gustatory and olfactory receptors detect smell
 - (c) Auditory receptors detect smell and olfactory receptors detect taste
 - (d) Olfactory receptors detect taste and gustatory receptors smell

4. Posture and balance of the body is controlled by
 - (a) cerebrum
 - (b) cerebellum
 - (c) medulla
 - (d) pons

5. Electrical impulse travels in a neuron from
 - (a) Dendrite → axon → axonal end → cell body
 - (b) Cell body → dendrite → axon → axonal end
 - (c) Dendrite → cell body → axon → axonal end

(d) Axonal end → axon → cell body → dendrite

6. The main function of abscisic acid in plants is to
- (a) increase the length of cells
 - (b) promote cell division
 - (c) inhibit growth
 - (d) promote growth of stem
7. Which of the following is not an involuntary action?
- (a) Vomiting
 - (b) Salivation
 - (c) Heart beat
 - (d) Chewing
8. In a neuron, conversion of electrical signal to a chemical signal occurs at/in
- (a) cell body
 - (b) axonal end
 - (c) dendritic end
 - (d) axon
9. Junction between two neurons is called
- (a) cell junction
 - (b) neuro muscular junction
 - (c) neural joint
 - (d) synapse
10. In humans, the life processes are controlled and regulated by
- (a) reproductive and endocrine systems
 - (b) respiratory and nervous systems
 - (c) endocrine and digestive systems
 - (d) nervous and endocrine systems
11. Name the plant hormones responsible for the following
- (a) elongation of cells
 - (b) growth of stem
 - (c) promotion of cell division
 - (d) falling of senescent leaves.

12. Mention one function for each of these hormones:
 - (a) Thyroxin
 - (b) Insulin
 - (c) Adrenaline
 - (d) Growth hormone
 - (e) Testosterone.
13. “Nervous and hormonal systems together perform the function of control and coordination in human beings.” Justify the statement.
14. Where are gustatory receptors present?
15. What is synapse? Mention the role of neurotransmitter.
16. Draw a labeled diagram of reflex arc.
17. Draw a well labeled diagram of human brain.
18. Explain thigmotropic movement in tendrils of pea plant.
19. Explain thigmonasty in touch me not plant.
20. Explain feedback mechanism.