

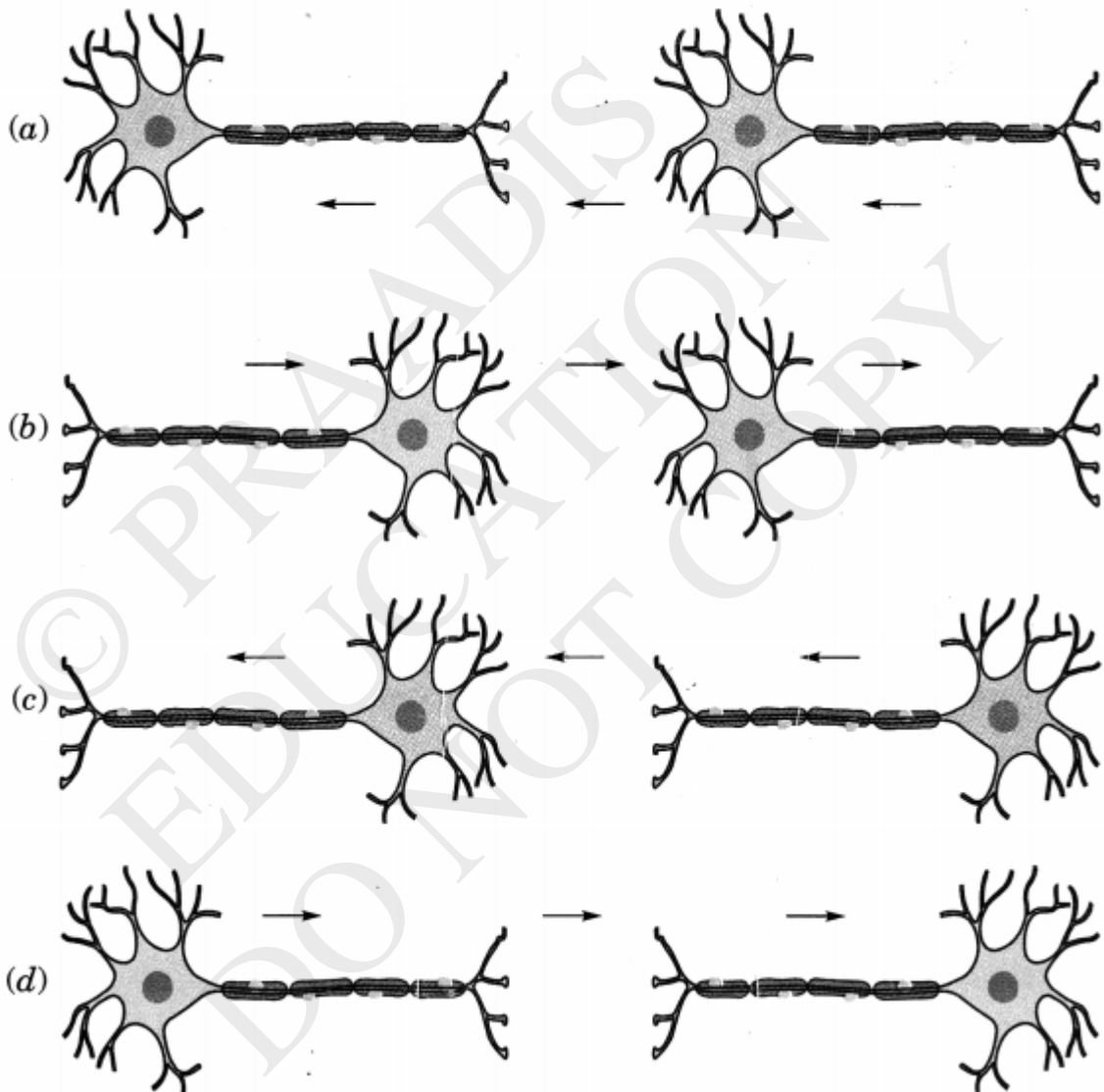
## Chapter- 2

### Worksheet- 3

1. The spinal cord is protected by the ..... or the backbone.
2. Directional movement in seedling is a ..... dependent movement.
3. Breathing is controlled by which part of the brain?
  - (a) Cerebrum
  - (b) Cerebellum
  - (c) Hypothalamus
  - (d) Medulla oblongata
4. Roots of plants are:
  - (a) positively geotropic
  - (b) negatively geotropic
  - (c) positively phototropic
  - (d) None of these
5. In a neuron, the conversion of electrical signal to a chemical signal occurs at/in:
  - (a) dendrite end
  - (b) cell body
  - (c) axon end
  - (d) myelin sheath
6. Response of plant roots towards water is called:
  - (a) Chemotropism
  - (b) Phototropism
  - (c) Hydrotropism
  - (d) Geotropism
7. Fall of mature leaves and fruits from plants is triggered by which of the following substance?

- (a) Auxin
- (b) Cytokinin
- (c) Gibberellin
- (d) Abscisic acid

8. What is the correct direction of flow of electrical impulses?



9. Any change in the environment to which an organism responds is called

- (a) stimulus
- (b) coordination

- (c) response
- (d) hormone

10. Which of the following does not act as an endocrine gland as well as an exocrine gland?

- (a) testis
- (b) ovary
- (c) pituitary
- (d) pancreas

11. Match the terms of Column (A) with those of Column (B)

Column (A)

Column (B)

- |  |            |
|--|------------|
| (a) Olfactory receptors                      | (i) Tongue |
| (b) Thermo receptors (temperature receptors) | (ii) Eye   |
| (c) Gustatoreceptors                         | (iii) Nose |
| (d) Photoreceptors                           | (iv) Skin  |

12. Mention the part of the brain which controls the involuntary actions like blood pressure, salivation etc.

13. While watering a rose plant, a thorn pricked rinku's hand. How would she respond to this situation?

14. Name the hormones responsible for regulation of:

- (i) Metabolism of carbohydrates, fats and proteins.
- (ii) Water and electrolyte balance.

15. Name the hormones responsible for the:

- (i) Phototropic movement of plant
- (ii) Promoting cell division in plants

16. Write two differences between the response of the plants and response of the animals to stimuli.
17. What are hormones? Where are they produced?
18. What is the importance of hypothalamus?
19. Draw a well labeled diagram of neuro muscular junction.
20. What is a stimulus. How are impulses carried in neuron?

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