

Short Answer Type Questions

1. Label the parts (a), (b), (c) and (d) and show the direction of flow of electrical signals in Figure 7.2.

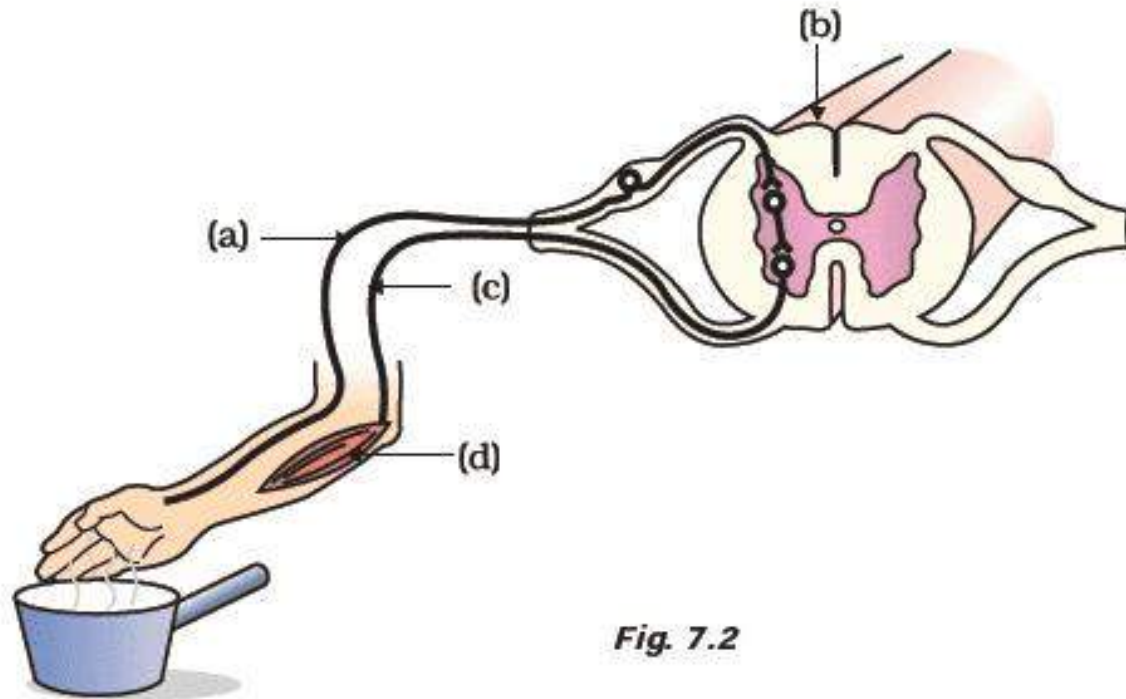


Fig. 7.2

2. 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.

3. Label the endocrine glands in Figure 7.3.

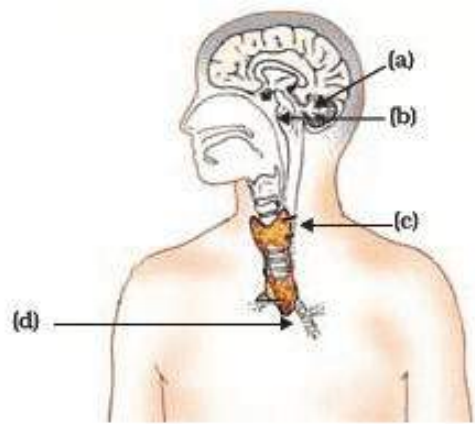


Fig. 7.3

4. In Figure 7.4 (a), (b) and (c), which appears more accurate and why?

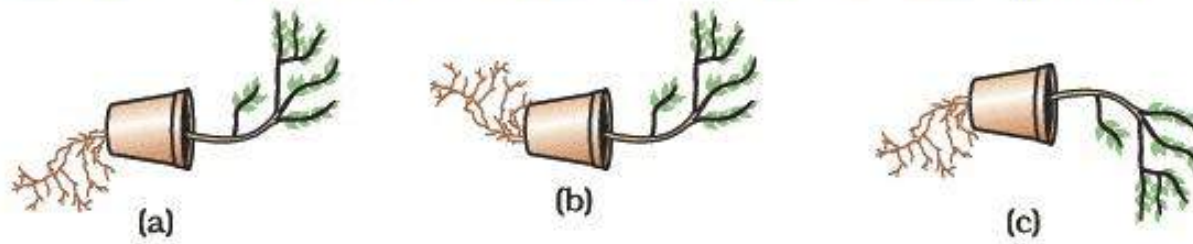


Fig. 7.4

5. Label the parts of a neuron in Figure 7.5.

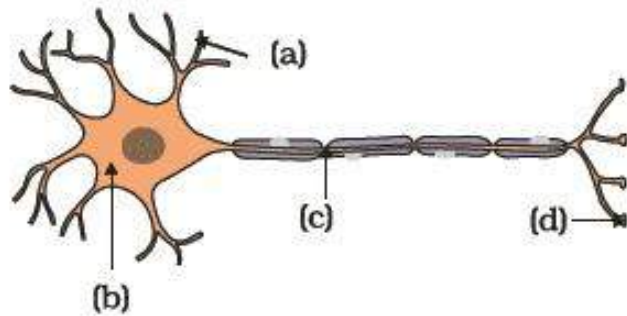


Fig. 7.5

6. 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

7. What is a tropic movement? Explain with an example.
8. What will happen if intake of iodine in our diet is low?
9. What happens at the synapse between two neurons?
10. Answer the following :
 - o (a) Which hormone is responsible for the changes noticed in females at puberty?
 - o (b) Dwarfism results due to deficiency of which hormone?
 - o (c) Blood sugar level rises due to deficiency of which hormone?
 - o (d) Iodine is necessary for the synthesis of which hormone?
11. Answer the following :
 - o (a) Name the endocrine gland associated with brain?
 - o (b) Which gland secretes digestive enzymes as well as hormones?
 - o (c) Name the endocrine gland associated with kidneys?
 - o (d) Which endocrine gland is present in males but not in females?

Long Answer Type Questions

1. Draw the structure of a neuron and explain its function.
2. What are the major parts of the brain? Mention the functions of different parts.47. What constitutes the central and peripheral nervous systems? How are the components of central nervous system protected?
3. Mention one function for each of these hormones :
 - o (a) Thyroxin

- (b) Insulin
- (c) Adrenaline
- (d) Growth hormone
- (e) Testosterone.

4. Name various plant hormones. Also give their physiological effects on plant growth and development.
5. What are reflex actions? Give two examples. Explain a reflex arc.
6. "Nervous and hormonal systems together perform the function of control and coordination in human beings." Justify the statement.
7. How does chemical coordination take place in animals?
8. Why is the flow of signals in a synapse from axonal end of one neuron to dendritic end of another neuron but not the reverse?