

# Control and Coordination

## ONE MARKS QUESTION

1. Which endocrine gland is unpaired?
2. Which part of the brain controlled posture and balance of the body?
3. Where in a neuron, conversions of electrical signal to a chemical signal occur?
4. Which gland secretes digestive enzyme as well as hormones?
5. We suddenly withdraw our hand when a pin pricks. Name the type of response involved in this action.
6. Name the hormone which helps in regulating sugar level in our blood? Name the gland which secretes this hormone?
7. State the main function of abscises acid
8. Write name of three hormones secreted by the pituitary gland
9. Mention one example of chemotropism.

## TWO MARKS QUESTION

10. Name the following:
  - a) Necessary for thyroid glands
  - b) Necessary to maintain sugar level of the body
11. Draw the diagram of a nerve cell and label the following on it:(a) Nucleus (b) Dendrites
12. How does our body maintain blood sugar level?
13. What is a tropic movement? Explain with an example.
14. What will happen if intake of iodine in our diet is low?
15. Draw the structure of neuron and label the following on it:
  - a. Nucleus
  - b. Dendrite
  - c. Cell body
  - d. Axon
16. Why are some patients of diabetes treated by giving injections of insulin?

## THREE MARKS QUESTION

17. Why is the flow of signals in a synapse from axonal end of one neuron but not the reverse?

18. What are reflex actions? Explain reflex arc.
19. What are the major parts of the brains? Mention the functions of each.
20. How does chemical co – ordination take place in animals?
21. A compound of iodine is compulsorily added to common salt in small quantity.
22. (a) Why is it important for us to have iodised salt in our diet.
23. (b) Name the disease caused by its deficiency.
24. (c) Write the symptoms of the disease.
25. What is reflex action? Describe the steps involved in reflex action.

**FIVE MARKS QUESTION.**

26. a) Name the various plant hormones.  
b) Give physiological effects of hormones on plant growth and development.
27. Name the plant growth hormone which is synthesized at the shoot tip. Explain briefly why a plant bends towards light during its growth.
28. Draw the diagram of human brain and label the parts. Write the function of cerebellum and pons.
29. What is reflex action? Describe the steps involved in reflex action.

**VALUE BASED QUESTION**

30. Ritesh is fond of eating pickles. As he hears the name of pickles, watering starts in his mouth. His friends used to make fun of him. When the same process or event was executed to the dog of Ritesh, the result was different. Now answer the following questions:
  - (i) What is the biological term for the watering of Ritesh in his mouth?
  - (ii) Why did the dog of Ritesh not water from mouth in the same events?
  - (iii) What is the value shown by his friends?