

Control and Coordination

Previous Year Questions

- Q.1.** (a) Define reflex arc.
(b) Trace the sequence of events which occur in our body when we happen to touch a hot object.
- Q.2.** Name the gland and the hormone secreted by it which: (i) regulates blood sugar level, (ii) prepares the body for emergency situations.
- Q.3.** Assertion (A): Thigmotropism is the directional growth movement of a plant part in response to the touch of an object.
Reason (R): The plant part in contact with the object grows faster than the part away from it.
- Q.4.** (a) What is phototropism? How does it occur in plants?
(b) Name the plant hormone which helps the cells to grow longer at the shoot tips.
- Q.5.** (a) Identify the glands which secrete the following hormones: (i) Insulin, (ii) Growth hormone, (iii) Testosterone.
(b) Mention the function of each of these hormones.
- Q.6.** a) Name the part of the human brain which is: (i) the main thinking part, (ii) responsible for maintaining the posture and balance of the body.
(b) Mention the role of 'receptors' in our body.
- Q.7.** How do auxiliary buds in plants help in growth? Mention the role of Auxin in the bending of a plant shoot towards light.
- Q.8.** (a) Differentiate between the Nervous system and the Hormonal system.
(b) Why are patients of diabetes treated by giving injections of insulin?
- Q.9.** Name the gland that secretes the following hormones and write one function of each:
(i) Thyroxine (ii) Insulin (iii) Adrenaline

Q.10. (a) Draw a labelled diagram of a nerve cell (Neuron).

(b) Name the part of the neuron where: (i) Information is acquired. (ii) Information travels as an electrical impulse.

(c) What is a "reflex action"? Give one example.