

Chapter - 7
Control And Co-ordination

Q. 1 A person suffered a head injury, due to which he faces breathing problem. No problem was detected with his respiratory system. What could be the cause of this problem? 1 Mark

Ans. As the problem is caused due to head injury, it could be related to “Pons” a part of Hind brain responsible for regulation of respiration.

Q. 2 A man becomes unconscious due to head injury. A pin is pricked on his foot, he withdraws his foot. Why? Explain. 3 Marks

Ans. It is reflex action. Stimulus is perceived by receptor (skin). Sensory nerve sends the sensation from receptor to the spinal cord. Then spinal cord sends the message through motor nerves to the effectors. Effectors i.e. muscles help in withdrawing his foot.

Q. 3 In a family of normal sized members, there are two exceptions, one member is dwarf and one is tall like “Khali”. What could be the cause of it? 2 Marks

Ans. In case of dwarfs, there is a deficiency of growth hormone from Pituitary gland and in case of giants excess of growth hormone is produced during childhood.

Q.4 Why do you blink your eyes as bright light is focused on you? 1 Mark

Ans. We blink in order to protect the eye from bright light which otherwise would damage the retina.

Q. 5 There is a potted plant in your drawing room, after few days you note that plant has bent to one side. What could be the reason? How has this movement been co-ordinated? 1 Mark

Ans. The plant has bent to one side due to phototropic movement of the stem. This movement is due to unequal growth of the stem on both sides. This growth is initiated by the hormone auxin.

Q. 6 A leaf shaped gland is present above the intestine. The secretion of this gland regulates the metabolism of sugar in blood. Name the secretion and gland. 1 Mark

Ans The name of the gland is pancreas. The secretion is Insulin from special cells in it.