

BIOLOGY

STD. X SA1

SECTION A ONE MARK QUESTIONS

1. Name the tissue which transports soluble products of photosynthesis in a plant.
2. Name the hormone that helps in regulating level of sugar in our blood. Name the gland that secretes.
3. Name the component of blood that helps in the formation of blood clot in the event of a cut.
4. Name the part of the brain which controls equilibrium and posture of the body?
5. Give one point which is common for both aerobic and anaerobic respiration.
6. Name the part of the human body in which the adrenal and pituitary glands are located.
7. What are the final products after digestion of carbohydrates and proteins?
8. How do we detect the smell of an agarbatti (incense sticks)
9. Name the process which helps in artificial removal of wastes from the body.
10. Name the neurous which carry impulses from receptors to brain.
11. How do autotrophs obtain Co₂ and N₂ to make their food.
12. Name the hormone synthesized at the shoot tips.

SECTION B TWO MARK QUESTIONS

1. What are plant hormones? Write two important functions of Auxins.
2. State two differences between Arteries and Veins.
3. "There is a need for a system of control and coordination in an organism". Justify the statement.
4. How would digestion of food be affected if the bileduct is completely blocked. Explain
5. Justify that the pancreas and the gonads perform dual function.
6. Bile juice does not contain any digestive enzymes, yet it is essential for digestion. Why so? Explain.
7. Why are white blood corpuscles called 'soldiers of the body.
8. What are the cranial nerves? How many cranial nerves does a human being have?
9. Why does the left ventricle possess a thicker wall that the right ventricle.
10. What is the difference between a reflex action and walking?

SECTION C THREE MARK QUESTIONS

1. What causes a tendril to encircle or coil around the object in contact with it. Explain the process involved.
2. What is double circulation in human beings? Why is it necessary?
3. What is a reflex action? Describe the steps involved in a reflex action.
4. Describe in brief the function of kidneys, Ureters and Urinary bladder.
5. What are voluntary and involuntary actions? Give one example each.
6. What are stomata? Draw a labeled diagram of stomata. Write two functions of stomata.
7. Name the source and one main function of the following
 - a) Insulin
 - b) Testosterone
 - c) oestrogen
8. Write any three differences between aerobic and anaerobic respiration.
9. What are Villi? Where are they present? What is their function?
10. What is a reflex arc? Draw a neat labeled diagram of the component in a reflex arc.

SECTION D

1. Draw a sectional view of the human heart and label on it:
 - a) Aorta, Right Ventricle and Pulmonary veins
 - b) State the functions of the following components of transport system a) Blood b) lymph
2. What is (i) Phototropism (ii) Geotropism
 - b) Mention the role of each of the following plant hormones.
 - (i) Auxin
 - (ii) Absciscic acid
3. What is endocrine system? What are its functions? Name the important endocrine glands present in a human body.
4. a) List the three events that occur during the process of photosynthesis. Explain the role of stomata in this process.
5. Describe an experiment to show that "Sunlight is essential for photosynthesis".
6. Name the blood vessel that brings oxygenated blood to the human heart.
Which chamber of human heart receives oxygenated blood?
Explain how oxygenated blood from this chamber is sent to all parts of the body.