



CLASS 10 - SCIENCE

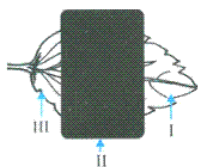
Class 10 Science Chapter 6,7 and 8

Time Allowed: 2 hours and 30 minutes

Maximum Marks: 45

Section A

1. What are the components of the transport system in human beings? What are the functions of these components? [3]
2. Why is less energy produced during anaerobic respiration than in aerobic respiration? [3]
3. Leaves of healthy potted plant were coated with vaseline. Will this plant remain healthy for long? Give reasons for your answer. [3]
4. Given below is a sketch of a leaf partially covered with black paper and which is to be used in the experiment to show that light is compulsory for the process of photosynthesis. At the end of the experiment, which one of the leaf parts labeled I, II and III will become blue black when dipped in iodine solution? [3]



5. Differentiate between Excretion and Egestion. [3]
6. A child, frightened by the loud noise runs quickly to his mother. What is the reason behind this response? How does this response occur? [3]
7. What do you understand by the sleep movement of plant organs? [3]
8. Which part of the brain is more important? Why? [3]
9. Smita's father was complaining about frequent urination, pain in legs and a frequent weight loss to Smita's mother, and she discussed the things with Smita when she returned from her school. Listening to this, Smita said to her mother that her father should visit a doctor, who told her mother that her husband is having an elevated level of blood glucose. He should take care of his diet and should exercise regularly to maintain his normal glucose level. On the basis of the given text, answer the following questions. [3]
 - i. Name the disease he is suffering from and name the hormone, whose deficiency causes it.
 - ii. Identify the gland that secretes it and mention the function of this hormone.
 - iii. Explain, how the time and amount of secretion of this hormone is regulated in the human system?
 - iv. What values were shown by Smita and her father?
10. Differentiate between tropic and nastic movements in plants. [3]
11. Name four whorls of flower. [3]
12. What is artificial vegetative propagation? [3]
13. Describe sexually transmitted diseases (STDs) and mention the ways to prevent them. [3]

14. What is the difference between binary fission and multiple fission? **[3]**
15. i. Name any three asexual modes of reproduction. **[3]**
ii. Explain with diagram the method by which Amoeba reproduces.
iii. How is fission different from fragmentation?