

High Order Thinking Skill Questions for Class 7, Biology

Photosynthesis

1. Why do you think the leaves of a plant droop at night?
2. "Transpiration is a necessary evil". Justify this statement.
3. "The leaves of a plant needs to be kept in a dark room for few hours before performing the starch test". What is the reason behind this statement?
4. To perform the experiment to show chlorophyll is necessary for photosynthesis, a leaf from variegated plant is taken. Why?
5. During photosynthesis the glucose formed is first converted to starch and stored in leaves. What is the reason behind this?

Respiration in plants and animals

1. Root of a plant was immersed in a bottle containing alkali solution to which phenolphthalein was added. What would be your observation after a few hours? Give reasons in support of your statement.
2. A gardener watered the soil using excess water for several days. The plants started to die after a few days. Why?
3. A bottle of lime water kept in the laboratory turned milky after a few days. What is the reason behind this?
4. " Air entering the lungs need to be moistened and dust free". What reason according to you must be behind this statement.
5. " Yeast is used in bakeries for risening of the dough". Which product of anaerobic respiration is used for risening of the dough?

Transport and Excretion

1. What would happen if arteries are provided with valves instead of veins?
2. Skin is more of an organ for temperature regulation than Excretion. Justify.
3. " A doctor while visiting a patient forgot his stethoscope". How will he determine the heart rate? What will be the reason for using the alterante method?
4. " If salt is given to the roots of a plant, the plant dies". Give reasons to support this statement.
5. With reference to filtration of blood in nephrons, explain why a patient undergoing dialysis sometimes suffer from salt and water imbalance in the body.

How Animals Adapt

1. "Penguins live in Antartic zone and have become good swimmers". Discuss this point stating what would happen if the penguins would have been good fliers and poor swimmers.
2. " Snakes and lizards hibernate but humans do not". Justify.

Silk

1. What would happen if the silkworms did not undergo moulting?
2. " Throwing can only be done by specialized people called throwsters".
Do you think it is necessary for silk production? What would happen if untrained people did throwing?

Forests

1. " Uttarakhand disaster took place because the forest cover in mountains was removed".
How in your opinin would forests have prevented this disaster?
2. " Rahul planted a sapling in his garden and watered it regularly".
Do you think this is a good effort? What benefits would he get from such an effort?