

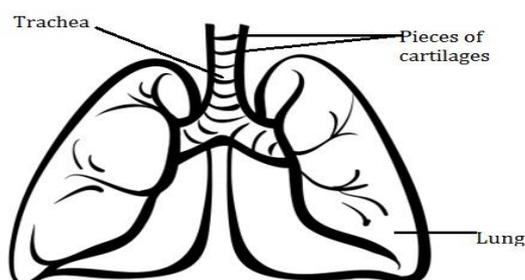


QUESTION BANK

TOPIC- LIFE PROCESSES (NUTRITION AND RESPIRATION)

CLASS – X

1. Photosynthesis converts light energy to chemical energy. Explain.
2. Why growth is not considered as a life process?
3. Compare the functioning of alveoli in the lungs and nephrons in the kidneys with respect to their structures and functioning?
4. Why is the rate of breathing much faster in aquatic organisms than those of terrestrial organisms?
5. Why does tooth decay start when the pH of the mouth is lower than 5.5?
6. On oxidation, which of these releases more energy? Why? Organize them in an arranging order. a) 1gm of fat b) 1gm of protein c) 1gm of glucose d) 0.5gm of protein + 0.5gm of glucose
7. When a person feeling dizzy which type of food nutrient he must take for fulfilling the energy requirement? And why?
8. Do all the cells use oxygen to produce energy?
9. If a plant is releasing carbon dioxide and taking in oxygen during the day, does it mean that there is no photosynthesis occurring?
10. A person was diagnosed with infection of lungs wherein there was a decrease in the air flow into and out of the lungs. Doctors linked this condition with the tobacco smoking. Why so? How does tobacco smoking affect our body?
11. Diagram below shows the lungs and the trachea, the airway leading to the lungs. One of the lungs is drawn in section.



- (a) In the wall of the trachea, there are pieces of a stiff material called cartilage. Why is this stiff material necessary in the wall of the trachea?
12. Is ADP or ATP more like a fully charged battery and why?
  13. Why absorption of digested food mostly take place in small intestine?
  14. The air passing through the nostrils are filtered by X that line the passage. The nasal passage is also lined by Y which helps in this process. Identify X and Y.
  15. In an experiment, a test tube containing pieces of bread (powdered), saliva is added to it. What will be the result?