

**CLASS X**  
**CHAPTER-6**  
**LIFE PROCESSES (RESPIRATION)**

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**ONE MARK QUESTIONS**

- 1 What is the difference between breathing and respiration?
- 2 Write down the name of sound producing organ in man.
- 3 What is the role of diaphragm in respiration?
- 4 What is anaerobic respiration? What happens during anaerobic respiration in yeast?
- 5 What is the specific reason for muscle cramps that are caused due to sudden physical activity?
- 6 Name the three carbon compound formed during anaerobic respiration in muscle.

**TWO MARKS QUESTIONS**

- 7
  1. Write the use of cartilaginous rings in trachea?
  2. What prevents entry of food particles into wind pipe?
- 8 The air entering our nose is generally cold and contains dust particles. How is the air made warm and free of dust particles inside the respiratory tract?
- 9 What is the significance of residual volume of air that lungs always contain?
- 10 What are the adaptations in plant leaves to satisfy the oxygen requirement for aerobic respiration?
- 11 During the respiration of an organism A one molecule of glucose produce 2 ATP molecule where as in the respiration of organism B , one molecule of glucose produce 38ATPmolecule .Which of the organism A or B has anaerobic respiration ? Suggest any other major difference between anaerobic and anaerobic respiration.
- 12 Explain the role of alveoli in the lungs with respect to its structure and function.

**THREE MARK QUESTION**

- 13 What are the different pathways in which glucose is oxidized to provide energy in various organisms? Explain by writing the reactions involved
- 14 Describe the mechanism by which breathing occurs in human beings, including inspiration and expiration.
- 15 Draw a neat well labeled diagram depicting human respiratory system.

16 From the two lists below ,match each structure with its correct function ,

Associated with respiratory system in human being.

Structure	Function
1. The nasal cavity	1. Produce the sound
2. Epiglottis	2. Carries air down the lungs
3. Larynx	3. warm ,moisten and filter the air
4. Alveoli	4 Separate thorax from the abdomen
5. Diaphragm	5. Prevent entry of food to trachea
6. Trachea	6. Gas exchange takes place

- 17
1. Name the source of oxygen for terrestrial animal and aquatic animals.
  2. Why the rate of breathing in aquatic organisms are faster than terrestrial animals.
- 18 Give any three differences between Aerobic and Anaerobic respiration.