

Class Work
Topic- Respiration
Judge Yourself

Instruction:

➤ **The answer hints are provided here. Elaborate according to marks.**

1. Glycolysis is a part of
 - a. Only anaerobic respiration
 - b. Krebs's cycle
 - c. Only aerobic respiration
 - d. Both aerobic and anaerobic respiration**

2. Trachea divides in two smaller tubes named
 - a. Bronchi
 - b. Microtrachea
 - c. Bronchioles
 - d. Eustachian tube

3. Anatomically which lies in front of esophagus
 - a. Trachea**
 - b. Glottis
 - c. Epiglottis
 - d. Larynx

4. CO₂ is carried in blood primarily with the help of
 - a. Hemoglobin
 - b. Serum
 - c. Plasma**
 - d. RBC

Choose any one option

1. Both A and R are true and R is the correct explanation of A.
2. Both A and R are true but R is not the correct explanation of A.
3. A is true but R is false.
4. A is false but R is true.
5. Both A and R are false.

5. A: All carbohydrates are usually first converted into glucose before they are used for respiration.

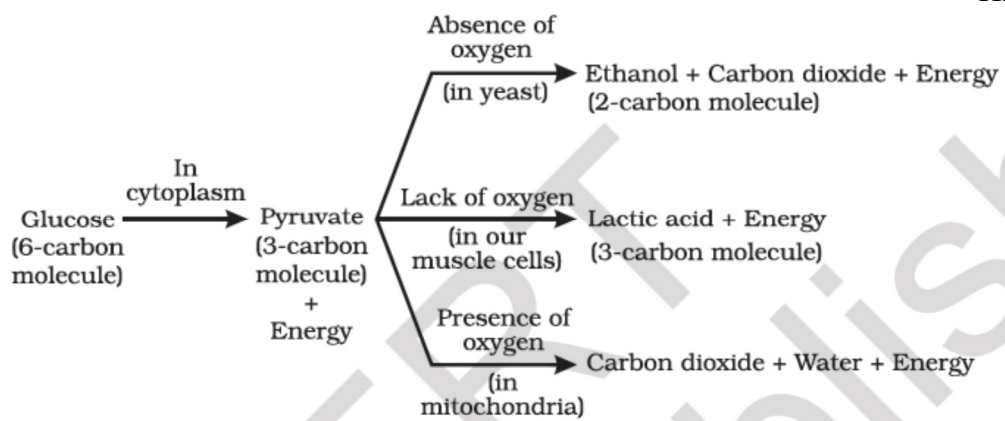
R: Proteins, fats and organic acids can also be respired but they do not enter the respiratory pathway at the first step.

Ans. 2

6. With a chart show all the three respiratory pathways in detail (aerobic and anaerobic).

Ans.

Hint.



7. Why diffusion alone is not sufficient to fulfil the gaseous exchange demand in human body?

Ans. Hint. Multicellular and complex organ system with various layers

8. Explain the role of alveoli in respiration.

Ans. Hint. Alveoli are inflated air sacs with enormous spaces to do gaseous exchange of CO₂ and O₂ from blood

9. Why our trachea can withstand enormous air pressure?

Ans. Hint. Cartilaginous rings

10. How does lung capacity increased in human?

Ans. Hint. Alveoli space, diaphragm movement, intercostal muscle contraction and rib cage expansion.