



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

## SOLUTIONS – 37

Class: IX

Sub: Life Science

Date: 16.06.2020



**Topic: Anaerobic respiration and Significance of respiration**

**F.M. : 15**

**Choose the correct option:**

**(1x15=15)**

1. The incomplete breakdown by of respiratory substance in absence of free oxygen is called :-  
a) Aerobic respiration b) Krebs' cycle c) Anaerobic respiration d) None of these

**Answer : Anaerobic respiration (c)**

2. The end product of anaerobic respiration in plants cells is \_\_\_\_\_.  
a) Citric acid b) Ethyl alcohol c) Pyruvic acid d) Lactic acid

**Answer : Ethyl alcohol (b)**

3. Anaerobic respiration in animal cells leads to the formation of \_\_\_\_\_ as the end product.  
a) Lactic acid b) Malic acid c) Ascorbic acid d) Citric acid

**Answer : Lactic acid (a)**

4. Anaerobic respiration takes place in :-  
a) *Thiobacillus* b) Methane bacteria c) *Clostridium* d) All of these

**Answer : All of these (d)**

5. Skeletal muscle fibres during vigorous exercise undergoes \_\_\_\_\_ respiration.  
a) Aerobic b) Anaerobic c) Both (a) and (b) d) Fermentation

**Answer : Anaerobic (b)**

6. Characteristics of anaerobic respiration is :-  
a) Glucose is completely oxidised b) CO<sub>2</sub> and O<sub>2</sub> are end products c) Takes place in present of O<sub>2</sub>  
d) Glucose is incompletely oxidised

**Answer : Glucose is incompletely oxidised (d)**

7. Lactic acid fermentation is brought about by :-  
a) Yeast b) Skeletal muscle cells c) Tape worm d) All of these

**Answer : Yeast (a)**

8. Lactic acid fermentation is brought about by :-  
a) *Clostridium* b) *Lactobacillus* c) *Acetobacter* d) All of these

**Answer : Lactobacillus (b)**

9. The site of anaerobic respiration in a cell is :-  
a) Mitochondria b) Nucleus c) Cytoplasm d) Mitochondria and cytoplasm both

**Answer : Cytoplasm (c)**

10. Alcoholic fermentation differs from anaerobic respiration on the basis of following feature :-  
a) Occurs in micro-organisms b) End products do not cause toxicity to the cells c) Energy produced outside the cells d) All of these

**Answer : All of these (d)**

11. Anaerobic respiration results in generating electric current in :-  
a) Electric ray b) Seal c) Torpedo d) String ray

**Answer : Electric ray (a)**

12. Significance of anaerobic respiration in glow worm is :-  
a) Generates electric current b) Emits light by glow worms c) Raise temperature  
d) Both (b) and (c)

**Answer : Both (b) and (c) (d)**

13. Significance of respiration is :-  
a) Formation of ATP b) Suffices calorie need of an organism c) Balance between O<sub>2</sub> and CO<sub>2</sub>  
d) All of these

**Answer : All of these (d)**

14. The number of ATP produced during anaerobic respiration is :-  
a) 2 b) 14 c) 36 d) Zero

**Answer : 2 (a)**

15. Formation of ATP takes place from :-  
a) Adenosine b) ADP c) Tryptophan d) All of these

**Answer : ADP (b)**

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