

Time Taken = 3 Minutes 56 Seconds  
Score = 40/40

**Udaan 2025**  
**Biology**  
**Life Processes**

**DHA - 04**

**Q 1** Which of the following situations is likely to cause muscle cramps?

- (A) Glucose  $\xrightarrow{\text{Lack of Oxygen}}$  Lactic acid  
(B) Glucose  $\xrightarrow{\text{Oxygen}}$  Lactic acid  
(C) Glucose  $\xrightarrow{\text{No Oxygen}}$  Alcohol +  $CO_2$   
(D) Glucose  $\xrightarrow{\text{Oxygen}}$   $CO_2 + H_2O$

**Q 2** Which one of the following is known as energy currency of cell?

- (A) Adenosine diphosphate  
(B) Adenosine triphosphate  
(C) Pyruvate  
(D) Glucose

**Q 3** Glycolysis process occurs in which part of the cell?

- (A) Cytoplasm (B) Nucleus  
(C) Mitochondria (D) Chloroplast

**Q 4** Name the pores in a leaf through which respi-ratory exchange of gases takes place.

- (A) Lenticels (B) Vacuoles  
(C) Xylem (D) Stomata

**Q 5** Yeast respire anaerobically using sugar as a substrate. Out of the options given below, choose the correct combination of condition and product?

Condition	Product
(A) Aerobic	Alcohol
(B) Aerobic	Lactic acid
(C) Anaerobic	Alcohol
(D) Anaerobic	Lactic acid

**Q 6** Exchange of gases occurs in plants by the process of \_\_\_\_\_ with the help of \_\_\_\_\_.

- (A) Osmosis, Stomata  
(B) Diffusion, Stomata  
(C) Diffusion, xylem  
(D) Osmosis, Phloem

**Q 7** Sometimes we get painful cramps in our leg muscles after running for a long time due to the accumulation of:

- (A) Hydrochloric acid  
(B) Fatty acids  
(C) Carbon dioxide  
(D) Lactic acid

**Q 8** During vigorous physical exercise, lactic acid is formed from glucose inside the muscle cells due to

- (A) Lack of oxygen (B) Lack of water  
(C) Excess of carbon dioxide (D) None of the above

**Q 9** The correct sequence of anaerobic respiration in Yeast

- (A) Glucose  $\rightarrow$  pyruvate  $\rightarrow$  lactic acid  
(B) Glucose  $\rightarrow$  Pyruvate  $\rightarrow$  Ethanol + Carbon-Dioxide  
(C) glucose  $\rightarrow$  pyruvate  $\rightarrow$  ADP  $\rightarrow$  lactic acid  
(D) glucose  $\rightarrow$  pyruvate  $\rightarrow$  carbon dioxide + ethanol + energy

**Q 10** Which of the following gas is majorly released by plants during day time?

- (A) Carbon dioxide (B) Oxygen  
(C) Both carbon dioxide and oxygen are equally released (D) Nitrogen

# Answer Key

Q1    A  
Q2    B  
Q3    A  
Q4    D  
Q5    C

Q6    B  
Q7    D  
Q8    A  
Q9    D  
Q10   B



# Hints & Solutions

## Q 1 Text Solution:

Cramps occur in muscles due to lack of oxygen

## Video Solution:



## Q 2 Text Solution:

ATP is known as energy currency of cell

## Video Solution:



## Q 3 Text Solution:

In jelly like substance of the cell

## Video Solution:



## Q 4 Video Solution:



## Q 5 Text Solution:

Yeast can respire anaerobically and produce ethanol

## Video Solution:



## Q 6 Video Solution:



## Q 7 Video Solution:



## Q 8 Text Solution:

Anaerobic conditions

## Video Solution:



## Q 9 Text Solution:

Yeast is used in alcohol production

## Video Solution:



## Q 10 Text Solution:

Photosynthesis is major process during day time

## Video Solution:



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