



# BIOLOGY

## BOOKS - TRUEMAN BIOLOGY

### NCERT Exemplar Questions +1 (RESPIRATION IN PLANTS)

#### Mcqs

1. The ultimate electron acceptor of respiration in an aerobic organisms is:

A. Cytochrome

B. Oxygen

C. Hydrogen

D. Glucose

**Answer: b**



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**2. Phosphorylation of glucose during glycolysis is catalysed by**

A. Phosphoglucomutase

B. Phosphoglucoisomerase

C. Hexokinase

D. Phosphorylase

**Answer: c**



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**3.** Pyruvic acid, the key product of glycolysis can have many metabolic fates. Under aerobic condition it forms

A. Lactic acid

B.  $CO_2 + H_2O$

C. Acetyl  $CoA + CO_2$

D. Ethanol +  $CO_2$

**Answer: c**



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**4. Electron Transport System (ETS) is located in mitochondrial**

A. outer membrane

B. inter membrane space

C. inner membrane

D. matrix

**Answer: b**



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**5. Which of the following exhibits the highest rate of respiration?**

A. Growing shoot apex

B. Germinating seed

C. Root tip

D. Leaf bud

**Answer: b**



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**6. Choose the correct statement**

- A. Pyruvate is formed in the mitochondrial matrix
- B. During the conversion of succinyl Co-A to succinic acid a molecule of ATP is synthesized
- C. Oxygen is vital in respiration for removal of hydrogen
- D. There is complete breakdown of glucose in fermentation

**Answer: c**



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7. Mitochondria are called powerhouses of the cell. Which of the following observations support this statement ?

A. Mitochondria synthesise ATP

B. Mitochondria have a double membrane

C. The enzymes of the Krebs cycle and the cytochromes are found in mitochondria



D. Mitochondria are found in almost all plants and animal cells.

**Answer: a**



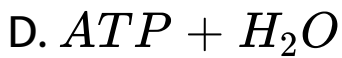
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**8. End product of oxidative phosphorylation is**

A. NADH

B. Oxygen

C. ADP



Answer: d

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9. Match the following and choose the correct option from those given below

	Column A		Column B
A.	Molecular oxygen	i.	$\alpha$ -Ketoglutaric acid
B.	Electron acceptor	ii.	Hydrogen
C.	Pyruvate dehydrogenase	iii.	Cytochrome C
D.	Decarboxylation	iv.	Acetyl Co A

A. A-ii, B-iii, C-iv, D-i

B. A-iii, B-iv, C-ii, D-i

C. A-ii, B-i, C-iii, D-iv

D. A-iv, B-iii, C-i, D-ii

**Answer: a**



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