



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. 1) Phosphoglucomutase

B. 2) Phosphoglucoisomerase

C. 3) Hexokinase

D. 4) 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. 1) Pyruvate is formed in the mitochondrial matrix

B. 2) During the conversion of succinyl Co-A to succinic acid a molecule of ATP is synthesized

C. 3) Oxygen is vital in respiration for removal of hydrogen

D. 4) 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. The end product of oxidative phosphorylation is

A. NADH

B. Oxygen

C. ADP

D. $ATP + H_2O$

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.	α -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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