



BIOLOGY

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BIOLOGY (HINGLISH)

**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 catalyzed 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. The end product of oxidative phosphorylation is

A. NADH

B. Oxygen

C. ADP

D. $ATP + H_2O$

Answer: d



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