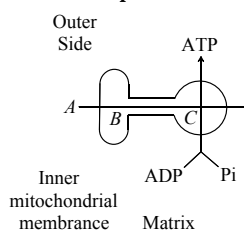


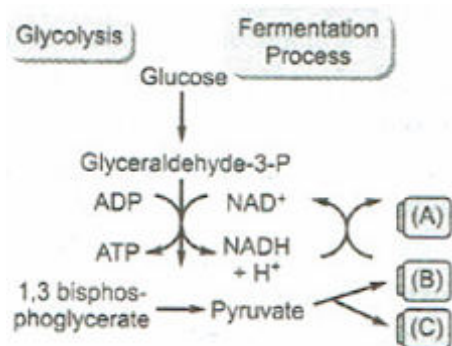
Topic :- Respiration in Plants

- Which one of the following is the terminal electron acceptor?
a) Molecular CO₂ b) Molecular O₂ c) Molecular H₂ d) NADPH₂
- In electron transport system, which of the following acts as a final hydrogen acceptor
a) Oxygen b) Hydrogen c) Calcium d) Ubiquinone
- If a starving plant is provided with glucose, the rate of respiration would
a) First rise then fall b) Become constant c) Decrease d) Increase
- Which one is product of aerobic respiration?
a) Malic acid b) Ethyl alcohol c) Lactic acid d) Pyruvic acid
- Given below the diagrammatic presentation of ATP synthesis in mitochondria. Identify A-C and Choose the correct option accordingly



- a) A – H⁺, B – F₁, C – F₀ b) A – 3H⁺, B – F₀, C – F₁
c) A – 2H⁺, B – F₀, C – F₁ d) A – 5H⁺, B – F₁, C – F₀
- In Krebs' cycle,
a) ADP is converted into ATP
b) Pyruvic acid is converted into CO₂ and H₂O
c) Glucose is converted into CO₂
d) Pyruvic acid is converted into ATP
 - Decline in the activity of the enzyme Hexokinase by glucose-6-phosphate is caused by
a) Non-competitive
b) Competitive inhibitors
c) Allosteric modulators
d) Denaturation of enzyme

8. In which of the following reactions of glycolysis, oxidation takes place?
 a) Glucose 6- PO_4 to fructose 6- PO_4
 b) Glyceraldehydes 3-phosphate to 1, 3-diphosphoglycerate
 c) 1,3-diphosphoglycerate to 3-phosphoglycerate
 d) 2-phosphoglycerate to phosphoglycerate
9. During conversion of pyruvic acid into acetyl Co-A, pyruvic acid is
 a) Oxidized b) Reduced c) Isomerized d) Condensed
10. During anaerobic respiration in yeast
 a) H_2O and CO_2 are end-products
 b) CO_2 , ethanol and energy are end-products
 c) CO_2 , and H_2O are end-products
 d) CO_2 , acetic acid and energy are end-products
11. Choose the correct combination of A and B according to NCERT text book.
 All living organisms need ...A... for carrying out daily life activities and is obtained by ...B... of macromolecules
 a) A-oxygen; B-reduction b) A-energy; B-reduction
 c) A-energy; B-oxidation d) A-oxygen; B-oxidation
12. Most of the biological energy is supplied by mitochondria through
 a) Breaking of proteins b) Reduction of NADP^+
 c) Breaking of sugars d) Oxidising TCA (tricarboxylic acid) substrate
13. Chemiosmotic mechanism of ATP production in aerobic respiration was given by
 a) Krebs b) Calvin c) Hatch and Slack d) Peter Mitchell
14. Choose the correct combination of labeling the molecules involved in the pathway of anaerobic respiration in yeast



- a) A - Ethanol, B - CO_2 , C - Acetaldehyde
 b) A - CO_2 , B - Ethanol, C- Acetaldehyde
 c) A - CO_2 , B - Acetaldehyde, C- Ethanol
 d) A - Ethanol, B - Acetaldehyde, C - CO_2

