



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

SOLUTIONS – 35

Class: IX

Sub: Life Science

Date: 13.06.2020

Topic: Cellular Respiration and Glycolysis

F.M. : 15

Choose the correct option:

(1x15=15)

- The process in which exchange of gases takes place between blood and environment is called :-
a) External Respiration b) Glycolysis c) Internal respiration d) Krebs' cycle
Answer : External respiration (a)
- The process in which exchange of gases takes place between body fluid and body cells is called :-
a) External respiration b) Internal respiration c) Glycolysis d) None of these
Answer : Internal respiration (b)
- The following is not a characteristic of respiration :-
a) Breaking down of complex food to simple food b) Release of ATP c) Large amount of heat produced d) Slower process
Answer : Large amount of heat produced (c)
- Combustion is a _____ process.
a) Physiological b) Physical c) Chemical d) Physiochemical
Answer : Physiochemical (d)
- The following is not a characteristic of combustion :-
a) ATP is produced b) Slow process c) Involvement of enzymes d) All of these
Answer : All of these (d)
- The following is the common pathway for aerobic respiration and anaerobic respiration :-
a) Glycolysis b) Krebs' cycle c) Fermentation d) Electron transport chain
Answer : Glycolysis (a)
- The site for Glycolysis is :-
a) Mitochondria b) Ribosome c) Cytoplasm d) Ribosome
Answer : Cytoplasm (c)
- The following is an important aspect of Glycolysis :-
a) Absence of O₂ b) Presence of O₂ is important c) Presence of O₂ inhibits Glycolysis
d) Both (b) and (c)
Answer : Both (b) and (c) (d)

9. EMP pathway s the other name for :-
a) Fermentation b) Glycolysis c) Krebs' cycle d) ETC
Answer : Glycolysis (b)
10. The letter 'P' in the EMP pathway stands for the following scientist's name :-
a) Pavlor b) Peter Mitchell c) Parnas d) None of these
Answer :Parnas (c)
11. In glycolysis glucose breaks down two molecules of _____.
a) Carbon dioxide b) Pyruvic acid c) Water d) Ethanol
Answer : Pyruvic acid (b)
12. The first five steps of building up phase are also known as :-
a) Preparatory b) Pay off phase c) Intermediate phase d) None of these
Answer : Preparatory Phase (a)
13. The net gain of ATP at the end of Glycolysis is :-
a) 8 ATP molecules b) 10 ATP molecules c) 36 ATP molecules d) 38 ATP molecules
Answer : 8 ATP molecules (a)
14. The following is not an intermediate product in the last five steps of Glycolysis.
a) Phosphoglyceric acid b) Fructose 1,6 Diphosphate c) Phosphoenol pyruvic acid
d) Diphosphoglyceric acid
Answer : Fructose 1,6 Diphosphate (b)
15. The following is the characteristic of Glycolysis.
a) Takes place in cytoplasm b) 8 ATP molecules are produced c) Incomplete breakdown of
glucose to pyruvic acid d) All of these
Answer :All of these(d)

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