



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Biological Sciences

Class: XI

Date: 16.1.2021

Plant Respiration

F.M:15

WORKSHEET – 56 (Answers)

(1x15=15)

i) Oxidative decarboxylation occurs in

- (1) Cytoplasm (2) Chloroplast (3) **Mitochondria** (4) Nucleus

ii) Enzyme required for oxidative decarboxylation is

- (1) Pyruvate hydrolase (2) **Pyruvate dehydrogenase** (3) Pyruvate decarboxylase (4) Pyruvate oxidase

iii) Which of the following is the first product of Krebs's Cycle??

- (1) Malic Acid (2) Oxalo Acetic Acid (3) **Citric Acid** (4) Fumaric Acid

iv) Which of the following is given out in oxidative decarboxylation?

- (1) H₂O (2) **CO₂** (3) NAD⁺ (4) O₂

v) Which of the following is also called link reaction?

- (1) Krebs Cycle (2) Glycolysis (3) **Oxidative decarboxylation**
(4) ETS

vi) The acceptor molecule of Krebs Cycle is

- (1) Malic Acid (2) **Oxalo Acetic Acid** (3) Fumaric Acid (4) Citric Acid

vii) Which of the following processes take place between Citric Acid to Cis aconitic Acid?

- (1) **Dehydration** (2) Oxidation (3) Dehydrogenation (4) Decarboxylation

viii) Conversion of Isocitric Acid to Oxalosuccinic Acid is

- (1) Dehydration (2) **Oxidation** (3) Dehydrogenation (4) Decarboxylation

ix) One molecule of Co-A produces _____ molecules of ATP.

- (1) **12** (2) 14 (3) 24 (4) 28

x) Succinyl Co-A to Succinic Acid conversion takes place by the formation of

- (1) ATP (2) **GTP** (3) NADH (4) H₂O

xi) Fumaric Acid is formed from Succinic Acid by

- (1) Dehydration (2) **Oxidation** (3) Dehydrogenation (4) Decarboxylation

xii) One glucose molecule produces _____ molecules of ATP in each cycle.

- (1) 12 (2) 14 (3) **24** (4) 28

xiii) Which of the processes is called amphibolic pathway?

- (1) **Krebs Cycle** (2) Glycolysis (3) Oxidative decarboxylation (4) ETS

xiv) Malic Acid is oxidised to Oxalo Acetic Acid in presence of

- (1) Aconitase (2) **Malic dehydrogenase** (3) Fumarase (4) Citrate synthetase

xv) Oxalo Acetic Acid combines with one molecule of Acetyl CoA to form

- (1) Malic Acid (2) Oxalo Acetic Acid (3) **Citric Acid** (4) Fumaric Acid

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