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 **(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 Kreb'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) H_2O (2) CO_2 (3) NAD^+ (4) O_2

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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Manjaree Guha