



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Biological Sciences

Class: XI

Date: 18.1.2021

Plant Respiration

F.M:15

WORKSHEET – 57 (ANSWERS)

(1x15=15)

- i) The number of CO₂ molecules released in Kreb's cycle is
(1) 1 **(2) 2** (3) 3 (4) 4
- ii) The number of NADH₂ molecules released from 2 molecules of pyruvate in Kreb's Cycle is
(1) 1 (2) 4 **(3) 8** (4) 5
- iii) The number of FADH₂ molecules released from 2 molecules of pyruvate in Kreb's Cycle is
(1) 1 (2) 3 (3) 5 **(4) 2**
- iv) The complexes for ETS are located in the
(1) **Inner mitochondrial membrane** (2) Outer mitochondrial membrane
(3) Matrix (4) Cytoplasm
- v) Which of the following is also called NADH dehydrogenase complex?
(1) **Complex I** (2) Complex II (3) Complex III (4) Complex IV
- vi) Which of the following complexes is connected to ATP synthesis?
(1) **Complex I** (2) Complex II (3) Complex III **(4) Complex V**
- vii) The full form of FMN is
(1) Flavin micronucleotide (2) Flavone micronucleotide (3) Flavone mononucleotide **(4) Flavin mononucleotide**
- viii) FMN is a component of
(1) **Complex I** (2) Complex II (3) Complex III **(4) Complex V**
- ix) From FMN, electrons move to
(1) UQ **(2) FeS** (3) Cyt c (4) Cyt b
- x) Which of the following is a highly mobile electron carrier?
(1) Flavin (2) Fe-S **(3) Quinone** (4) NADH
- xi) From Fe-S, the electrons move to
(1) Flavin (2) Fe-S **(3) UQ** (4) NADH
- xii) Protons are passed to the outer chamber by
(1) Fe-S **(2) UQ** (3) NADH (4) Cyt c
- xiii) Which of the following is not a component of Complex II?
(1) Cyt b (2) Fe-S (3) Cyt c1 **(4) Cyt a3**
- xiv) Which of the following is a mobile carrier of electrons between complex III and IV?
(1) UQ (2) Cyt b **(3) Cyt c** (4) Cyt a
- xv) Proton is not pumped out by
(1) Complex I **(2) Complex II** (3) Complex III (4) Complex IV

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