



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Biological Sciences

Class: XI

Date: 6.8.2021

Photosynthesis in higher plants

F.M:15

WORKSHEET – 68

(1x15=15)

- i) The pigments possessed by bacteria include
(1) Bacteriochlorophyll (2) **Phycoxanthin** (3) Bacterioviridin (4) All of these
- ii) The organisms which utilise chemical organic compound as a source of energy are called
(1) Photoautotroph (2) **Chemo organotroph** (3) Chemolithotroph (4) None of these
- iii) Which of the following is an inorganic electron donor in the bacteria?
(1) Molecular Hydrogen (2) H₂S (3) **Both (1) and (2)** (4) None of these
- iv) Which of the following is a photosynthetic plant?
(1) Cuscuta (2) Rafflesia (3) Monotropa (4) **Gladiolus**
- v) The stroma does not contain
(1) DNA (2) Ribosomes (3) **Golgi body** (4) RNA
- vi) Grana are interconnected by unstacked
(1) **Thylakoid** (2) Stroma (3) **Stroma lamellae** (4) Chromatophore
- vii) The photon in LHC is absorbed by
(1) **Light harvesting antennas** (2) Reaction centre (3) Chromatophore (4) Stroma lamellae
- viii) Which of the following is a photosynthetic bacterium?
(1) Chlorobium (2) Rhodospirillum (3) Heliobacterium (4) **All of these**
- ix) The number of pyrrole rings present-
(1) **4** (2) 3 (3) 2 (4) 1
- x) Along with the pyrrole ring is attached to
(1) Ethanol (2) **Phytol** (3) Methanol (4) All of these
- xi) Energy contained in the photon is called
(1) Photosynthin (2) Lutein (3) **Quantum** (4) Lipochrome
- xii) Allophycocyanin is found in both
(1) **Algae** (2) Fungi (3) Plants (4) Animals
- xiii) Which of the following is a product is formed after the light reaction?
(1) ATP (2) NADPH (3) **Both (1) and (2)** (4) None of these
- xiv) The terminal electron acceptor in Photosystem I is
(1) **Ferredoxin** (2) Plastoquinone (3) Ubiquinone (4) All of these
- xv) Photosystem I absorbs _____ of light
(1) **680 nm** (2) 700 nm (3) 760nm (4) 400nm

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