



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



SOLUTIONS-33

Class: IX

Sub: LIFE SCIENCE

Date: 05.07.2021

Topic: Photosynthesis: Light Phase

F.M. : 15

Choose the correct option:

(1x15=15)

- The First Phase of Photosynthesis is called:
a) Photo chemical Phase b) Light dependent c) Light phase d) All of these
Answer : All of these (d)
- The chlorophyll molecules are present on :-
a) Chloroplast b) Membrane of grana c) Stroma d) Grana
Answer: Membrane of grana (b)
- The chlorophyll molecules are activated by :-
a) Protons b) Electrons c) Photons d) All of these
Answer : Photons (c)
- In photosynthesis :-
a) Light energy is converted to chemical energy b) Light energy is released
c) Chemical energy is converted to light energy d) Chemical energy remains unaltered
Answer : Light energy is converted to chemical energy (a)
- The splitting of water is important to :-
a) Produce oxygen b) Compensate the loss of electrons from chlorophyll
c) Both(a) and (b) d) Trap sunlight
Answer: Both (a) and (b) (c)
- There are _____ types of photophosphorylation :-
a) One b) Two c) Three d) Five
Answer : Two (b)
- For photophosphorylation the two important criteria :-
a) ADP b) Chlorophyll c) Light d) Both (a) and (c)
Answer: Both (a) and (c) (d)
- The following are the types of photophosphorylation :-
a) Cyclic b) Non-cyclic c) Oxidation d) Cyclic and Non-cyclic
Answer: Cyclic and Non-cyclic (d)

9. The source of oxygen in light reaction is :-
a) Hydroxyl ions b) Protons c) Water d) None of these
Answer : Hydroxyl ions (a)
10. The Hydroxyl ions have the following function :-
a) Produce Oxygen b) Produce water as a raw material c) donate Electrons d) All of these
Answer: All of these (d)
11. The end products of light reaction is/are :
a) Oxygen b) ATP c) NADPH₂ d) All of these
Answer: All of these (d)
12. The protons produced from photolysis of water are used to:
a) Produce Oxygen b) Produce Water c) Reduce NADP d) None of these
Answer: Reduce NADP (c)
13. Hill reaction takes place in :-
a) Dark Phase of Photosynthesis b) Light Phase c) Both light and dark phase
d) At any time
Answer: Light Phase (b)
14. ATP formation during Photosynthesis is known as :-
a) Phosphorylation b) Photophosphorylation c) Oxidative phosphorylation
d) none of these
Answer: Photophosphorylation (b)
15. Which one is the energy currency produced during light reaction :-
a) AMP b) ADP c) ATP d) Phosphate
Answer : ATP (c)

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