



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

WORK SHEET – 24

Class: IX

Sub: LIFE SCIENCE

Date: 11.05.2020

Topic: SIGNIFICANCE OF PHOTOSYNTHESIS, C-2 and C-3 CYCLE

F.M. : 15

Choose the correct option:

(1x15=15)

- The highly energized invisible solar particles are called:
a) Protons b) UV rays c) Photons d) None of these
- The aggregates of chlorophyll molecules and accessory molecules are called :-
a) Photo systems b) Light Harvesting complexes c) Quantasome d) All of these
- Significance of photosynthesis :-
a) Conversion of light energy to chemical energy b) Conversion of chemical energy to light energy c) Conversion of light energy to kinetic energy d) All of these
- CO₂-O₂ balance is maintained in the atmosphere by :-
a) Transpiration b) Nutrition c) Osmosis d) Photosynthesis
- Photosynthesis results in the production of :-
a) Fructose b) Sucrose c) Glucose d) All of these
- Glucose produced in the photosynthesis is stored as :-
a) Sucrose b) Starch c) Cellulose d) Glycogen
- Food prepared in the Photosynthesis is stored in plant body parts :-
a) Root b) Modified stem c) fruit d) All of these
- How are the animals dependent on Photosynthesis?
a) Directly b) Indirectly c) Both directly and indirectly d) None of the above
- The following is not the pathway for carbon assimilation:-
a) C₂ – pathway b) C₃ – pathway c) C₅ – pathway d) CAM
- The process by which green plants liberate oxygen in presence of light :-
a) Respiration b) Photosynthesis c) Photo respiration d) None of these
- The first stable product of C-2 cycle is :-
a) Phosphoglyceric acid b) Phospho-glycolic acid c) Glycolic acid d) Phosphorus
- Advantages of C-2 cycle :-
a) Produces amino acids glycine and serine b) Co-ordinates among organelles like Chloroplast, microbody and mitochondria
c) Produces Phospho-glycolic acid
d) Both (a) and (b)

13. In which carbon trafficking mechanism Rubisco functions as oxygenase enzyme:-
a) C₃- cycle b) C₄ cycle c) C₂ cycle d) C₁ cycle
14. What is the significance of Photosynthesis?
a) Balance between O₂ and CO₂ b) Conversion of light energy to chemical energy c) Production of food d) All of these
15. The organelles which are involved in C₂ cycle along with chloroplasts are :-
a) Mitochondria b) Ribosomes c) Microbody d) Mitochondria and Microbody both

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