



# ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

## WORK SHEET – 23

Class: IX

Sub: LIFE SCIENCE

Date: 02.05.2020

Topic: Photosynthesis: Dark Phase

F.M. : 15

**Choose the correct option:**

**(1x15=15)**

1. Photosynthesis cannot take place at night due to :-
  - a) lack of sufficient light
  - b) stomata remains closed
  - c) photolysis does not occur
  - d) All of these
2. The fixation of carbon dioxide is brought by the acceptor :-
  - a) Ribulose biphosphate
  - b) Ribulose monophosphate
  - c) Phosphoglyceric acid
  - d) None of these
3. The site of Dark phase is :-
  - a) Grana
  - b) Membrane of thylakoid
  - c) Stroma
  - d) All of these
4. The first stable compound in C<sub>3</sub> cycle is :-
  - a) Pyruvic Acid
  - b) 3-Phosphoglyceric acid
  - c) 2-Phosphoglyceric acid
  - d) Phosphoenol Pyruvic acid
5. C-3 cycle is also named as :-
  - a) Calvin cycle
  - b) Biosynthetic phase
  - c) Light Independent phase
  - d) All of these
6. Full form of RuBP is :-
  - a) Ribulose Bisphosphate
  - b) Ribulose 1,5, Bisphosphate
  - c) Ribulose phosphate
  - d) Both (a) and (b)
7. The chief enzyme which brings about fixation of carbon dioxide is :-
  - a) Epimerase
  - b) Rubisco
  - c) Aldolase
  - d) Triose Phosphate kinase
8. Calvin cycle is divided into \_\_\_\_\_ phases :-
  - a) Two
  - b) Four
  - c) Three
  - d) Five
9. The phases of calvin cycle are :-
  - a) Carbon fixation
  - b) Reduction
  - c) Regeneration of RuBP
  - d) All of these
10. Reduction of Phosphoglyceric acid is brought about by :-
  - a) ATP
  - b) Protons
  - c) NADPH<sub>2</sub>
  - d) Both ATP and NADPH<sub>2</sub>
11. The reduction of phosphoglyceric acid forms the compound :-
  - a) Phospho enol pyruvic acid
  - b) Pyruvic acid
  - c) Phosphoglyceraldehyde
  - d) Phosphoric acid

12. Phosphoglyceraldehyde is used to :-  
a) Produce glucose b) Regenerate RuBP c) Produce Phosphoglyceric acid  
d) Both (a) and (b)
13. What type of process is photosynthesis ?  
a) Anabolic b) Catabolic c) Metabolic d) None of these
14. Which of the following occurs during the dark phase of photosynthesis?  
a) Carbon dioxide is released b) ATP is generated c) Phosphoglyceraldehyde is synthesized d) Oxygen is produced
15. Synthesis of carbohydrate which takes place in Calvin Cycle is :-  
a) Fructose b) Glucose c) Sucrose d) Both glucose and fructose

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