



# ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

## WORK SHEET - 19 (solutions)

Class: IX

Sub: LIFE SCIENCE

Date: 28.04.2020

Topic: Photosynthesis:Components chloroplasts and water

F.M. : 15

Choose the correct option:

(1x15=15)

- The site of photosynthesis:  
a) Plastids of leaf b) chloroplasts of leaf c) chloroplasts of mesophyll tissue d) none  
**Answer : chloroplasts of mesophyll tissue (c)**
- The places where photosynthesis occurs is:  
a) Green young stem b) calyx of flower c) phylloclade of cactus d) All of these  
**Answer : all of these (d)**
- The following is not the component of photosynthesis:  
a) chlorophyll b) water c) chromoplasts d) carbon dioxide  
**Answer : chromoplasts (c)**
- Leaves are best site for photosynthesis because:  
a) Contain chlorophyll b) large surface area c) are very thick d) Both (a) and (b)  
**Answer : Both (a) and (b) (d)**
- Synthesis of 1 mole of glucose requires ..... moles of carbon dioxide  
a) six b) one c) five d) two  
**Answer : Six (a)**
- For the synthesis of one mole of glucose .... Moles of water are required:  
a) Six b) five c) twelve d) one  
**Answer : Twelve (c)**
- The spongy layer in the aerial roots of orchids which help in absorption of moisture from air:  
a) roots b) spongocoel c) velamen d) sponging  
**Answer : Velamen (c)**
- The type of water absorbed by plants from soil is:  
a) Run off water b) capillary water c) chemically combined d) hygroscopic water  
**Answer : Capillary water (b)**

9. The by-product of photosynthesis is:  
a) glucose b) water c) oxygen d) All of these  
**Answer : oxygen (c)**
10. The source of hydrogen in glucose molecule is:  
a) Carbon dioxide b) hydrogen c) water d) none of these  
**Answer: water (c)**
11. Role of water in photosynthesis:  
a) Hydrogen donor b) photolysis c) as a solvent d) Both (a) and (b)  
**Answer : Both (a) and (b) (d)**
12. Reduction of CO<sub>2</sub> in photosynthesis is brought about by:  
a) By photolysis of water b) by absorbing hydrogen from air c) by using hydrogen from cellular pool d) all of these  
**Answer: By photolysis of water (a)**
13. Photosynthesis is an anabolic process because:  
a) Constructive process b) increase in dry weight c) glucose is produced d) all of these  
**Answer: All of these (d)**
14. Acceptor of Carbon dioxide in chloroplast is:  
a) RuBP b) H<sub>2</sub>O c) Glucose d) none of these  
**Answer : RuBP (a)**
15. The evolution of oxygen is due to:  
a) Splitting of water b) photolysis of water c) photosynthesis d) none of these  
**Answer: Photolysis of water (b)**

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