



# ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



## WORK SHEET – 32 (solutions)

Class: IX

Sub: LIFE SCIENCE

Date: 03.07.21

**Topic: Ch 3(part 1)Photosynthesis:Components of photosynthesis, their sources and importanceF.M. : 15**

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**Choose the correct option:**

**(1x15=15)**

- The types of chlorophyll in higher plants are:  
a) Chl a b) Chl b c) Chl c **d) Both (a) and (b)**
- The photo chemical effect of different wavelengths of light on photosynthesis is called:  
a) **Action spectra** b) Absorption spectra c) visible spectra d) none of these
- Deficiency of Magnesium leads to the disease:  
a) **chlorosis** b) leaf curls c) mottling d) wart formation
- Chlorophyll is an example of:  
a) Simple protein b) Chromoprotein c) conjugated protein **d) Both (b) and (c)**
- The action spectra of photosynthesis shows the following lights to be most efficient:  
a) Yellow light b) blue light c) red light **d) both blue and red light**
- Photosystems or Light harvesting complexes are aggregates of:  
a) Only chlorophyll molecules b) only accessory pigments **c) both chlorophyll and accessory pigments** d) none of these
- The first phase of photosynthesis is called photochemical because  
a) Redox reactions take place b) presence of light is mandatory c) enzyme play a chief role **d) Both (a) and (b)**
- On capturing photons the chlorophyll molecules gets :  
a) **oxidized** b) reduced c) solarised d) remains unaffected
- The sites where photosynthesis occurs is:  
a) Green young stem b) calyx of flower c) phylloclade of cactus **d) All of these**
- The role of ejected electron from chlorophyll is used :  
a) To liberate ATP b) To form NADPH<sub>2</sub> c) To be taken by acceptor **d) to be taken by acceptor and finally help in fixing Carbon dioxide**
- The process of addition of inorganic phosphate to ADP in presence of light is called:  
a) Photosynthesis b) photolysis **c) photophosphorylation** d) phosphorylation

12. Destruction of sunlight due to strong sunlight:  
a) photolysis b) photophosphorylation **c) solarization** d) none of these
13. The type of water absorbed by plants from soil is:  
b) Run off water **b) capillary water** c) chemically combined d) hygroscopic water
14. The energy released due to activation of chlorophyll is used for :  
a) **Synthesis of ATP** b) Splitting of water c) formation of glucose d) none of these
15. The by-product of photosynthesis is:  
a) glucose b) water **c) oxygen** d) All of these

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