



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



WORK SHEET - 32

Class: IX

Sub: LIFE SCIENCE

Date: 03.07.2021

Topic: Photosynthesis: Components of photosynthesis, their sources and importance F.M. : 15

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) solarized 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 :
a) To liberate ATP b) To form NADPH₂ 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:
a) 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

Shaista Ahmed