

INDIAN SCHOOL MUSCAT SENIOR SECTION DEPARTMENT OF BIOLOGY CLASS XI

PHOTOSYNTHESIS IN HIGHER PLANTS WORKSHEET-16

1.	Where are photosynthetic pigments located in the chloroplast?	[1]
2.	Expand RUBP, ATP and NADP.	[1]
3.	State the Law of limiting factors.	[1]
4.	Identify the internal structure of a plant that helps us to identify weather it is C_3 or C_4 plant.	[1]
5.	Name two photosynthetic pigments belonging to carotenoids.	[1]
6.	What is photophosphorylation?	[2]
7.	Distinguish between:	
	a) Respiration and photorespiration	
	b) Absorption spectrum and action spectrum	[2]
8.	Do reactions of photosynthesis called as Dark Reaction needs light? Explain.	[3]
9.	Describe briefly the contribution of the following scientists:	
	a) Jan Ingenhouz b) C.B.Van Niel	
	c) Joseph Priestly	[3]
10	. Give the comparison between the following:	
	a) C3 and C4 pathways	
	b) Cyclic and non cyclic pathways	[3]
11	. Explain how during light reaction of photosynthesis, ATP synthesis is a chemi osmotic phenome	enon.[3]
12	. Photorespiration is a wasteful process. Discuss.	[3]
13	. With the help of a diagram, explain dark reaction of photosynthesis.	[3]
14	. Draw a schematic diagram of Z scheme of light reaction.	[3]