# **Chapter 4: Photosynthesis**

### Worksheet 1

#### 1. Fill in the blanks.

- (i) \_\_\_\_\_ is a photosynthetic pigment.
- (ii) \_\_\_\_\_\_ is converted into starch for storage.
- (iii) \_\_\_\_\_\_ is transported through phloem into all the parts of plants.
- (iv) \_\_\_\_\_\_ are the microscopic openings on the under surface of leaf.
- (v) \_\_\_\_\_ gas is taken and \_\_\_\_\_ gas is released by green plants during photosynthesis.

#### 2. Write T for true and F for false statement.

- (i) Green plants have heterotrophic mode of nutrition.
- (ii) At night, stomata get closed.
- (iii) Food is formed as glucose during photosynthesis.
- (iv) Oxygen is necessary for photosynthesis.
- (v) Carbon dioxide is released during photosynthesis.

## 3. Match the following.

Column A	Column B		
(i) Green plants	(a) Stored food		
(ii) Hydrilla	(b) Source of oxygen		
(iii) By-product	(c) Water plant		
(iv) Water	(d) Oxygen		
(v) Starch	(e) Autotrophs		

## 4. Give one word for the following.

- (i) Splitting of water into H<sup>+</sup> and OH<sup>-</sup> ions in presence of light
- (ii) Process of removing starch from the leaves of green plant
- (iii) End-products of photosynthesis
- (iv) Transportation of food through phloem
- (v) The light in which photosynthesis is minimum

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## **Worksheet 2**

1. Ti	ck the correct answer	:				
(i)	Potassium hydroxid	e absorbs				
	(a) carbon dioxide					
	(b) oxygen					
	(c) water					
	(d) both carbon diox	kide and water				
(ii)	(ii) At high temperature, rate of photosynthesis will					
	(a) be slow	(b) be fast	(c) stop	(d) remain the same		
(iii)	ii) Iodine solution is used to test					
	(a) starch	(b) sugars	(c) proteins	(d) fats		
(iv) The gas taken and released by plants during photosynthesis						
	(a) oxygen and nitrogen		(b) carbon dioxide and nitrogen			
	(c) carbon dioxide and oxygen		(d) nitrogen and oxygen			
(v)	(v) The plant taken for photosynthesis experiments is					
	(a) Spirogyra	(b) Hydrilla	(c) Lotus	(d) Vallisneria		
2. Co	rrect the statements	by replacing wrong	word(s).			
(i)	(i) Plants give carbon dioxide for respiration.					
(ii)	ii) Benedict's solution is used to test starch.					
(iii)	iii) Photosynthesis occurs in the invisible part of spectrum.					
(iv)	Food in plants is stor	red as proteins.				
(v)	Hydrilla is a desert p	lant.				
3. En	circle the correct wo	rd.				

(i) **Potassium hydroxide/Iodine** turns blue-black in the presence of starch.

(v) The **chlorophyll/stomata** of leaf get destroyed by boiling it in **iodine/alcohol**.

(ii) Too bright/less light destroys chlorophyll.

(iii) CO<sub>2</sub>/O<sub>2</sub> is necessary for photosynthesis.

(iv)  $CO_2/O_2$  is necessary for respiration.

8