



# BIOLOGY

## BOOKS - ICSE

# PHOTOSYNTHESIS AND RESPIRATION IN PLANTS

### Exercises Fill In Blanks

1. The end products of photosynthesis are \_\_\_\_\_ and \_\_\_\_\_ .



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2. A chloroplast consists of two parts \_\_\_\_\_ and \_\_\_\_\_ .



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3. Grana are piles of flattened saclike bodies called \_\_\_\_\_ .



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4. Plants exchange gases through openings on leaves called \_\_\_\_\_ .



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5. Two bean-shaped \_\_\_\_\_ cells surround a stoma.



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6. Carbon dioxide traps heat resulting in the \_\_\_\_\_ .



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7. \_\_\_\_\_ are pores on stems, tubers and fruits through which gases are exchanged.



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8. In plants, carbon dioxide is liberated during

\_\_\_\_\_.



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9. Aerobic respiration produces \_\_\_\_\_ carbon dioxide and energy.



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10. Respiration that does not require oxygen is called \_\_\_\_\_ respiration.



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## Exercises Choose The Correct Option

1. Chlorophyll is essential to trap

A. oxygen

B. carbon dioxide

C. water

D. solar energy

**Answer:**



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**2. Stomata are mostly present in the**

A. stem

B. root

C. leaf

D. fruit

**Answer:**



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**3. Stomatal openings are surrounded by**

A. grana

B. thylakoids

C. guard cells

D. stroma



**Answer:**



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**4. Photosynthesis is affected by**

A. light

B. carbon dioxide

C. chlorophyll

D. all of these

**Answer:**



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5. Aerobic respiration occurs within the

A. cytoplasm

B. mitochondria

C. chloroplast

D. cytoplasm and mitochondria

**Answer:**



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6. Alcohol is produced in plants during

- A. aerobic respiration
- B. anaerobic respiration
- C. photosynthesis
- D. transpiration

**Answer:**



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7. Chloroplasts are used for

A. photosynthesis

B. respiration

C. both (a) and (b)

D. none of these

**Answer:**



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8. Lenticels are found on

A. fruits

B. tubers

C. stems

D. all of these

**Answer:**



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1. What is photosynthesis? What are the factors that affect this process?



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2. How do guard cells help open and close a stoma?



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### 3. Anaerobic respiration and Aerobic respiration



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## Exercises Explain In Brief

1. Why should we add more plants to our surroundings?



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2. Describe the structure of chloroplast with the help of diagrams.



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3. Describe the structure of a stoma with a diagram.



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4. Describe an experiment to prove that starch is formed in leaves during photosynthesis.



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5. How would you prove that oxygen is formed during photosynthesis?



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6. What is the significance of photosynthesis?



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7. Name the following :

Screen used to prove that light is necessary for photosynthesis



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8. Place a variegated garden croton in sunlight for a day. Test one of its leaves with iodine solution Explain what happens.





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9. Compare how photosynthesis and respiration occur in plants.



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