# Exercises

# A. Fill in the blanks.

- 1. The end products of photosynthesis are Glucose and Oxygen
- 2. A chloroplast consists of two parts \_\_ 980mo\_\_ and \_Strong
- 3. Grana are piles of flattened saclike bodies called thy lake ide
- 4. Plants exchange gases through openings on leaves called Stornol &
- 5. Two bean-shaped \_\_Guoscl\_\_ cells surround a stoma.
- 6. Carbon dioxide traps heat resulting in the 310 local working
- 7. lenhcels are pores on stems, tubers and fruits through which gases are exchanged.
- \*8. In plants, carbon dioxide is liberated during Yeap ration
- 4.9. Aerobic respiration produces water, carbon dioxide and energy.
- v 10. Respiration that does not require oxygen is called \_\_\_\_\_\_ respiration.

# B. Choose the correct option.

- 1. Chlorophyll is essential to trap
  - (a) oxygen
  - (c) water
- 2. Stomata are mostly present in the
  - (a) stem
  - (c) leaf
- 3. Stomatal openings are surrounded by
  - (a) grana
  - (c) guard cells
- 4. Photosynthesis is affected by
  - (a) light
  - (c) chlorophyll
- 5. Aerobic respiration occurs within the
  - (a) cytoplasm
  - (c) chloroplast
- Alcohol is produced in plants during.
  - (a) aerobic respiration
  - (c) photosynthesis
  - 7. Chloroplasts are used for
    - (a) photosynthesis
    - (c) both (a) and (b)
  - 8. Lenticels are found on
    - (a) fruits
    - (c) stems

- (b) carbon dioxide
- (d) solar energy
- (b) root
- (d) fruit
- (b) thylakoids
- (d) stroma
- (b) carbon dioxide
- (d), all of these
- (b) mitochondria
- (d) cytoplasm and mitochondria
- (b) anaerobic respiration
- (d) transpiration
- (b) respiration
- (d) none of these
- (b) tubers
- (d) all of these

# C. Match the following.

### Column A

- 1. Chloroplast
- 2. Mitochondria
- 3. Stomata
- 4. Starch
- 5. Guard cells
- 6. Anaerobic respiration
- 7. Grana
- 8. Greenhouse effect

## Column B

- a. Site of respiration (2)
- b. Heat trapped by carbon dioxide 8
- c. Occurs without oxygen
- d. Openings in the leaves (3)
- e. Piles of thylakoids (1)
- f. Site of photosynthesis (1)
- g. Turns blue-black when iodine solution is added (2)
- h. Open and close a stoma [5]

# D. Answer the following.

- 1. What is photosynthesis? What are the factors that affect this process?
- 2. How do guard cells help open and close a stoma?
- 3. Distinguish between aerobic and anaerobic respiration.

# Respiration in plants

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Answer the following:

Define respiration.

Am: The process of breakdown of food particles in the presence of absence of oxygen to produce energy along with coulon dioxide and water is known as respiration.

2. Write down the word equation for respiration.

Am: Glucosa + Oxygen - > carbon dioxide + water + energy

3. Name the two types of respiration.

Ano: The two types of respiration are -

- 1. Acrobic respiration.
- 2. Anaemobic respiration

4. What is lendicels?

Ans: Lenticels are the pores present on the old and woody stems, roots, tubers, fruits etc. that helps in the exchange of gases. Lenticels are clearly visible on apples, pears and potatoes.

5. write down the difference between altobic and anaerobic respiration.

# Any: Difference between aerobic and anaerobic respiration SATURDAY 215 m - 144-222 2020

tio orthography bigues browns	animals. Bonosis 2	in all higher plants and occurs in micro-organism	in Aemobic respiration occurs in Angerobic respiration	oxide and water brooking to	respiration are carbon - di-	in The end products of aexobic his The end products of	energy is released. energy is released.	in Large consum (38 ATP) of	aerobic respiration occur without oxygen	is oxygen is required for is Anaenobic respisation con	Acrobic respiration	
· VOIDPLE HEEDLANGEN DECENT	- Monda Sharoning of chierdy is rejectively	occurs in micro-erganism	in Anaexobic respiration	oxide and water souls to combon dioxide and alcohol.	an autobic respiration ou	The end products of	energy is released.	is very less amount (2 ATP)	occur without oxygen	is Anderobic respisation con	Amaerobic respisation.	

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Thinking well is wise; planning well, wiser; doing well, wisest and best of all.	the cells of plant and animals.	i'm Respiration occurs in all	and bootes.	products are combon dioxide	glucose and oxygen and the end	in Respiration starts with	of colored and largaid in	is light is not required.	liberate energy in this process.	I.	100	