

India's Number 1 Education App

BIOLOGY

BOOKS - FULL MARKS BIOLOGY (TAMIL ENGLISH)

PLANT ANATOMY AND PLANT PHYSIOLOGY

Textual Evaluation Solved Choose The Correct Answer 1. Casparian strips are present in the _____

of the root.

A. cortex

B. pith

C. pericycle

D. endodermis

Answer: D

2. The endarch condition is the characteristic

feature of

A. root

B. stem

C. leaves

D. flower

Answer: B

3. The xylem and phloem arranged side by side

on same radius is called ______.

A. radial

B. amphivasal

C. conjoint

D. none of these

Answer: C

4. Which is formed during anaerobic

respiration

A. Carbohydrate

B. Ethyl alcohol

C. Acetyl CoA

D. Pyruvate

Answer: B

5. Kreb's cycle takes place in

A. chloroplast

B. mitochondrial matrix

C. stomata

D. inner mitochondrial membrane

Answer: B

6. Oxygen is produced at what point during photosynthesis?

A. when ATP is converted to ADP

B. when CO_2 is fixed

C. when H_2O is splitted

D. All of these

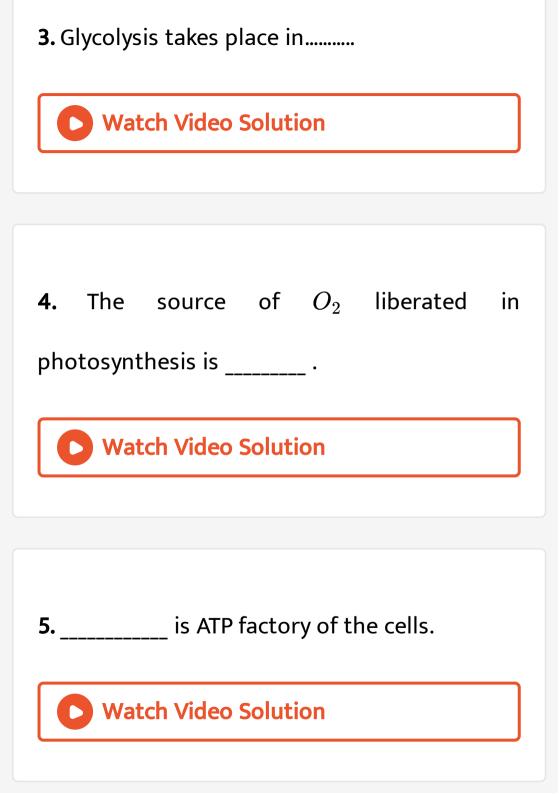
Answer: B

1. Cortex lies between
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2. Xylem and phloem occurring on the same radius constitute a vascular bundle called

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Textual Evaluation Solved State Whether The Statements Are Ture Or False Correct The False Statement

1. Phloem tissue is involved in the transport of

water in plant.

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2. The waxy protective covering of a plant is

called as cuticle.

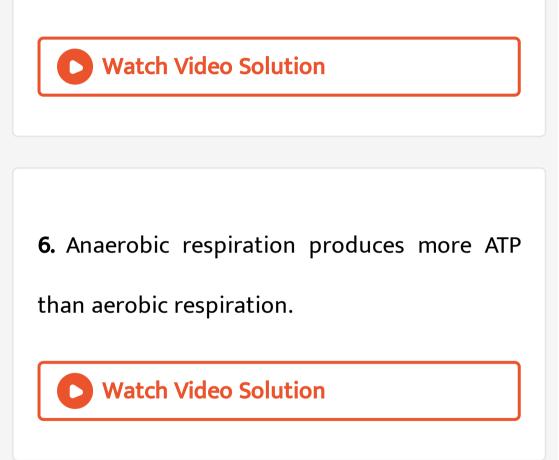
3. In monocot stem cambium is present in between xylem and phloem.

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4. Palisade parenchyma cells occur below

upper epidermis in dicot root.

5. Mesophyll contains chlorophyll.



Textual Evaluation Solved Match The Following





Textual Evaluation Solved Answer In Sentence

1. What is collateral vascular bundle?



2. Where does the carbon that is used in

photosynthesis come from?

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3. What is the common step in aerobic and

anaerobic pathway?

4. Name the phenomenon by which carbohydrates are oxidized to release ethyl alcohol.



TextualEvaluationSolvedShortAnswerQuestions

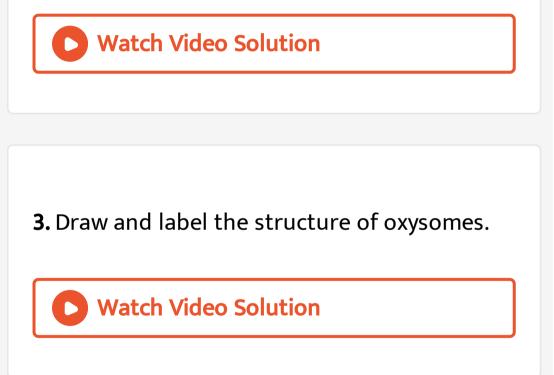
1. Give an account on vascular bundle of dicot

stem.

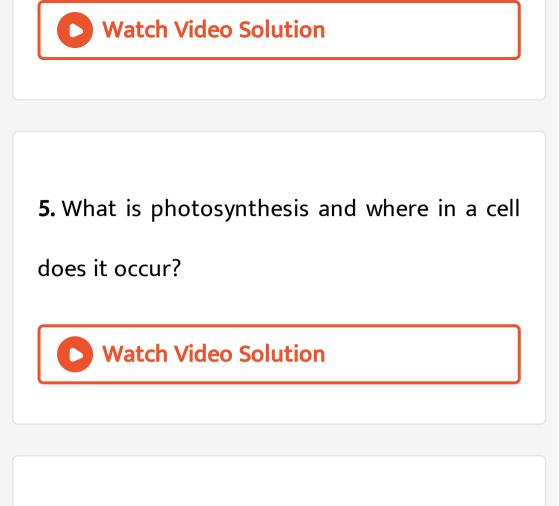




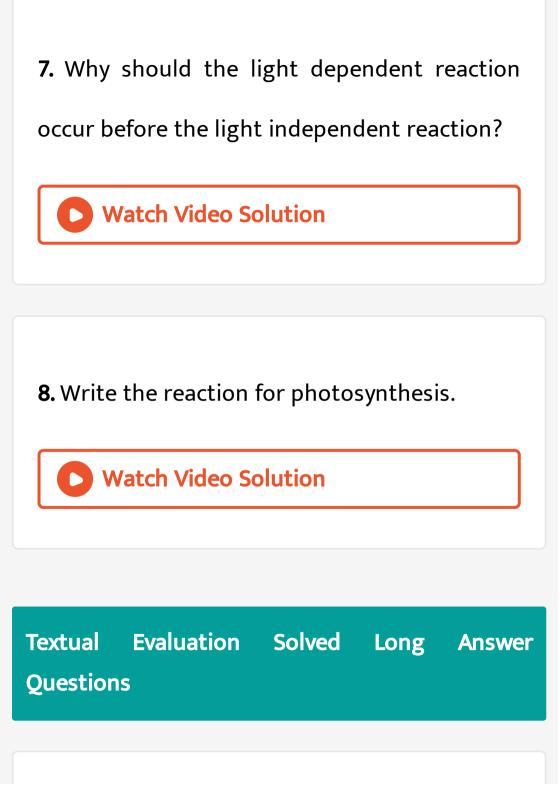
2. Write a short note on mesophyll.



4. Name the three basic tissue system in flowering plants.



6. What is respiratory quotient?



1. Differentiate the following

(a) Monocot root and Dicot root (b) Aerobic

and Anaerobic respiration

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2. Describe and name three stages of cellular respiration that aerobic organisms use to obtain energy from glucose.

3. How does the light dependent reaction differ from the light independent reaction? What are the end product and rectants in each? Where does each reaction occur within the chloroplast?

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Textual Evaluation Solved High Order Thinking Skills Hots 1. The reactions of photosynthesis make up a

biochemical pathway.

What are the reactants and products for both

light and dark reactions.

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2. Where do the light dependent reaction and

the Calvin cyd e occur in the chloroplast?



1. The father of Plant Anatomy is

A. Melvin Calvin

B. C.N.R. Rao

C. Robin Hill

D. Nehemiah Grew

Answer: D

2. Sachs classified tissue system in plants into

_types.

A. five types

B. two types

C. three types

D. four types

Answer: C

3. The vascular bundle consists of

A. Xylem and Phloem

B. Hypodermis and Endodermis

C. Cortex and Pericycle

D. Pith and Stele

Answer: A

4. The power house of the cell or ATP factory of the cells...

A. Plastids

B. Vacuoles

C. Nucleus

D. Mitochondria

Answer: D

5. This is the first step of both Aerobic. and

Anaerobic respiration.

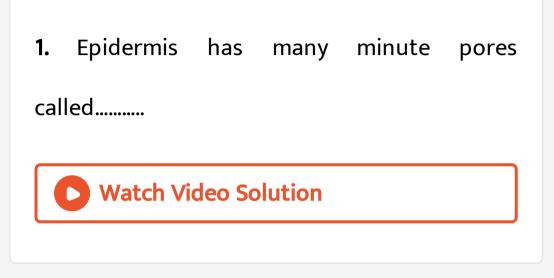
A. Electron transport chain

B. Respiratory Quotient

C. Glycolysis

D. Kreb's Cycle

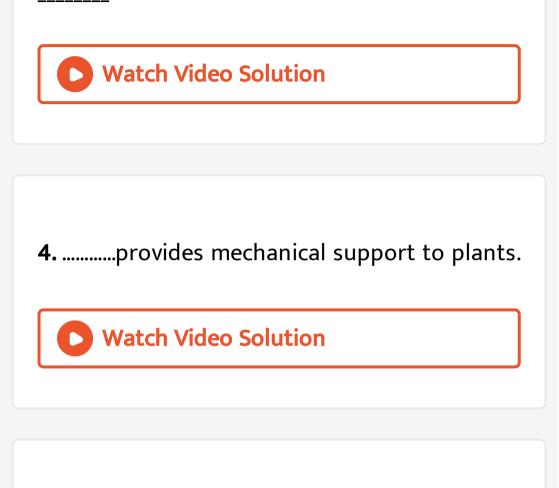
Answer: C



2. Epiblema, the outermost layer of root is

called...... Orlayer .

3. All tissues inner to endodermis constitute



5. The barrel shaped innermost layer of Dicot

stem Endodermis is also called

6. Each vascular bundle of monocot stem is surrounded by a few layer of sclerenchyma cells called

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7.Consists of sieve tubes and elements of

companion cells.

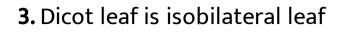


Additional Questions State Whether The Statements Are True Or False Correct The False Statement

1. Pith is differentiated in monocot stems.

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2. In monocot leaves, the mesophyll is not differentiated into palisade and spongy parenchyma





4. The lateral roots of dicot plant originate

from stele

5. Cuticle and Stomata are absent in Epiblema

of Dicot root

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Additional Questions Match The Following

- 1. Leukoplast
- 2. Accessory pigments
- 3. Chlorophyll
- 4. Cristae

- (a) Photosystems
- (b) Inner mitochondrial membrane
- (c) Chlorophyll and Carotenoids
- (d) Colourless plastids
- Chl.a and Accessory pigments (e) Green pigment

1. What are the functions of Epidermis?

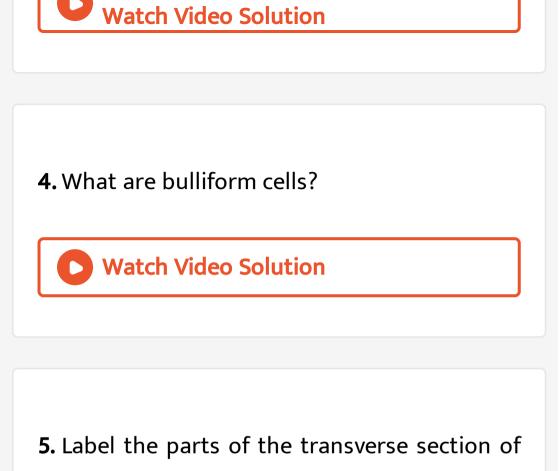
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2. Draw the overview of Hill and Calvin Cycle

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3. What are oxysomes?





Dicot Root.

6. What are the functions of chloroplast ?



7. List out the two important factors which

affect photosynthesis.

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8. Mention the components and functions of

different Tissue Systems



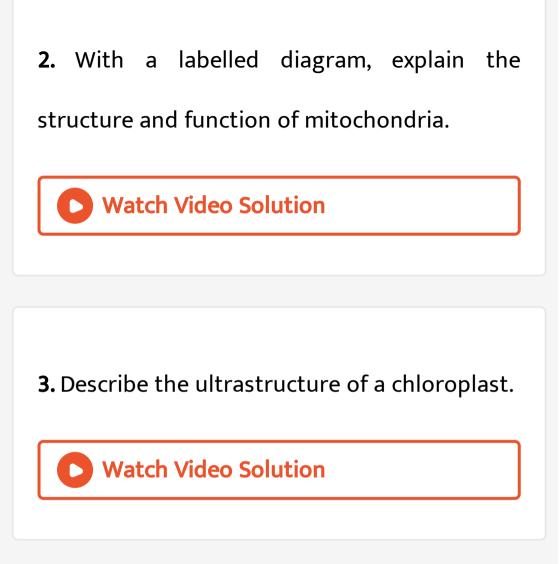
Additional Questions Long Answer Questions

1. (a) Label the parts of the Transverse section

of a monocot stem.

(b) Mention the differences between Dicot and

Monocot stem.





1. What are non-green plants? Give an

example.



2. Do plants like Croton, with non-green leaves

have chlorophyll and do they perform

photosynthesis?

3. How does photosynthesis take place on plants that have, red, brown and yellow leaves, and are not green? How do they prepare food?



4. How do we see beautiful colours in Autumn

and enjoy the fall?

