



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



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2. The endarch condition is the characteristic feature of

A. root

B. stem

C. leaves

D. flower

Answer: B



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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



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4. Which is formed during anaerobic respiration

A. Carbohydrate

B. Ethyl alcohol

C. Acetyl CoA

D. Pyruvate

Answer: B



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5. Kreb's cycle takes place in

A. chloroplast

B. mitochondrial matrix

C. stomata

D. inner mitochondrial membrane

Answer: B



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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



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Textual Evaluation Solved Fill In The Blanks

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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3. Glycolysis takes place in.....



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4. The source of O_2 liberated in photosynthesis is _____ .



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5. _____ is ATP factory of the cells.



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Textual Evaluation Solved State Whether The Statements Are True 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.



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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.



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5. Mesophyll contains chlorophyll.



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6. Anaerobic respiration produces more ATP than aerobic respiration.



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Textual Evaluation Solved Match The Following

1. 



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Textual Evaluation Solved Answer In Sentence

1. What is collateral vascular bundle?



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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 ?



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



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**Textual Evaluation Solved Short Answer
Questions**

1. Give an account on vascular bundle of dicot stem.



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2. Write a short note on mesophyll.



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3. Draw and label the structure of oxysomes.



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



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5. What is photosynthesis and where in a cell does it occur?



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6. What is respiratory quotient?



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7. Why should the light dependent reaction occur before the light independent reaction?



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8. Write the reaction for photosynthesis.



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**Textual Evaluation Solved Long Answer
Questions**

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.



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3. How does the light dependent reaction differ from the light independent reaction? What are the end product and reactants 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 cycle occur in the chloroplast?



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Additional Questions Choose The Correct Answer

1. The father of Plant Anatomy is

A. Melvin Calvin

B. C.N.R. Rao

C. Robin Hill

D. Nehemiah Grew

Answer: D



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2. Sachs classified tissue system in plants into _____ types.

A. five types

B. two types

C. three types

D. four types

Answer: C



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3. The vascular bundle consists of

A. Xylem and Phloem

B. Hypodermis and Endodermis

C. Cortex and Pericycle

D. Pith and Stele

Answer: A



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

A. Plastids

B. Vacuoles

C. Nucleus

D. Mitochondria

Answer: D



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

A. Electron transport chain

B. Respiratory Quotient

C. Glycolysis

D. Krebs's Cycle

Answer: C



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Additional Questions Fill In The Blanks

1. Epidermis has many minute pores called.....



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2. Epiblema, the outermost layer of root is called..... Orlayer .



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3. All tissues inner to endodermis constitute _____ .



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4.provides mechanical support to plants.



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5. The barrel shaped innermost layer of Dicot stem Endodermis is also called



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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.



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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



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3. Dicot leaf is isobilateral leaf



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4. The lateral roots of dicot plant originate from stele



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5. Cuticle and Stomata are absent in Epiblema of Dicot root



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Additional Questions Match The Following

- | | |
|----------------------------------|------------------------------------|
| 1. Leukoplast | – (a) Photosystems |
| 2. Accessory pigments | – (b) Inner mitochondrial membrane |
| 3. Chlorophyll | – (c) Chlorophyll and Carotenoids |
| 4. Cristae | – (d) Colourless plastids |
| 5. Chl. a and Accessory pigments | – (e) Green pigment |

1.



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Additional Questions Short Answer Questions

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?





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4. What are bulliform cells?



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**5. Label the parts of the transverse section of
Dicot Root.**



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6. What are the functions of chloroplast ?



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7. List out the two important factors which affect photosynthesis.



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8. Mention the components and functions of different Tissue Systems



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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.



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2. With a labelled diagram, explain the structure and function of mitochondria.



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3. Describe the ultrastructure of a chloroplast.



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Additional Questions Higher Order Thinking Skills Hots

1. What are non-green plants? Give an example.



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2. Do plants like Croton, with non-green leaves have chlorophyll and do they perform photosynthesis?



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



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4. How do we see beautiful colours in Autumn and enjoy the fall?



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