



BIOLOGY

NCERT - NCERT Biology(Tamil)

PLANT ANATOMY AND PLANT
PHYSIOLOGY

Textbook Evaluation | Choose The Correct
Answer

1. Casparian strips are present in the _____
of the root.

A. cortex

B. pith

C. pericycle

D. endodermis

Answer:



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2. The endarch condition is the characteristic feature of

A. root

B. stem

C. leaves

D. flower

Answer:



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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:



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4. Which is formed during anaerobic respiration

A. Carbohydrate

B. Ethyl alcohol

C. Acetyl CoA

D. Pyruvate

Answer:



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5. Kreb's cycle takes place in

A. chloroplast

B. mitochondrial matrix

C. stomata

D. inner mitochondrial membrane

Answer:



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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.

D.

Answer:



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Textbook Evaluation II 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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Textbook Evaluation ii 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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Textbook Evaluation Iv Match The Following

1. Match the following columns

- | | | |
|----------------|---|-----------------------|
| 1. Amphicribal | - | <i>Dracaena</i> |
| 2. Cambium | - | Translocation of food |
| 3. Amphivasal | - | Fern |
| 4. Xylem | - | Secondary growth |
| 5. Phloem | - | Conduction of water |



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Textbook Evaluation V Answer In A 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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Textbook Evaluation Vi 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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Textbook Evaluation Vii Long Answer Questions

1. Differentiate the following

Monocot root and Dicot root



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2. Differentiate the following

Aerobic and Anaerobic respiration



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



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4. 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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Textbook Evaluation Viii Higher 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. The reactions of photosynthesis make up a biochemical pathway.

Explain how the biochemical pathway of photosynthesis recycles many of its own reactions and identify the recycled reactants.



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3. Where do the light dependent reaction and the Calvin cycle occur in the chloroplast?



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