BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

PHOTOSYNTHESIS IN HIGHER PLANTS

One Marks Questions And Answers

1. Give the general equation for photosynthesis.

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2. Name the active pigment involved in photosynthesis.

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3. Name the first stable intermediate compound formed during calvin cycle.

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4. What is the Red drop effect ?

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5. What is Emserson's Enhancement effect ?

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6. Define solarisation ?

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7. What is photoionization of water ?

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8. What do you regard calvin cycle as a C_3 pathway ?

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9. Name the metallic ion associated with chlorophyll molecule.

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10. Name the energy currency of the cell ?

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11. State Blackmann's law of limiting factors ?

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12. What is the site of the dark reaction of photosynthesis ?

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13. What are C_3 Plants ?

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14. Name the first stable compound produced in CAM plants.

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15. Name the primary CO_2 acceptor in C_4 plants.

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16. By looking at a plant externally can you tell whether a plant is C_3 or C_4 ? Why and how ?

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Two Marks Questions And Answers

1. Draw a neat tabelled diagram of a chloroplast ?

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2. What are the end products of light reaction of photosynthesis ?

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3. List any four differences between cyclic and non-cyclic photosynthesis.

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4. Give the schematic representation of a cyclic photo phosphorylation.

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5. Write any four differences between light and dark reactions of photosynthesis.

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6. Explain the law of limiting factors with an example.

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7. What is krantz anatomy? Give two examples of plants with krantz anatomy.

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8. By looking at which internal structural of plant, can you tell whether a plant is C_3 or C_4 ? Explain.

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9. Even though only few cells in a C_4 plant carry out the biosynthesis - Calvin pathway, they are highly productive. Can you describe why ?

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10. RuBisCO is an enzyme that acts both as a carboxylase and an oxygenase. Why do you think RuBisCO carries out more carboxylation in C_4 plants ?

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11. Why is the colour of a leaf in the dark frequently turns yellow, or pale green ? Which pigment do you think is more stable ?

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12. Give comparison between the following :

C_3 and C_4 pathways.

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13. Give comparison between the following :

Cyclic and non-cyclic photophosphorylation.

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14. Give comparison between the following :

Anatomy of a leaf in C_3 and C_4 plants.

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Five Marks Questions And Answers

1. Write the schematic representation of non-cyclic photohosphorylation.

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2. Give the schematic representation of Calvin cycle/C_3 pathway.

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