

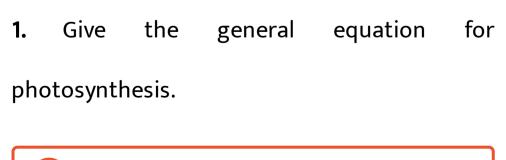
India's Number 1 Education App

BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

PHOTOSYNTHESIS IN HIGHER PLANTS

One Marks Questions And Answers



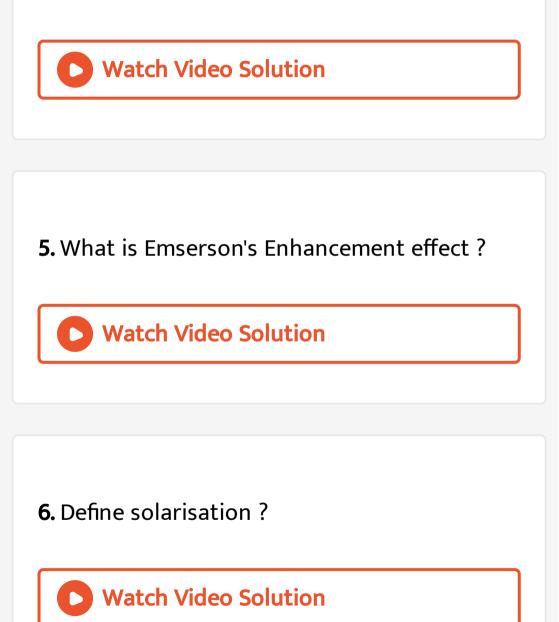
2. Name the active pigment involved in photosynthesis.

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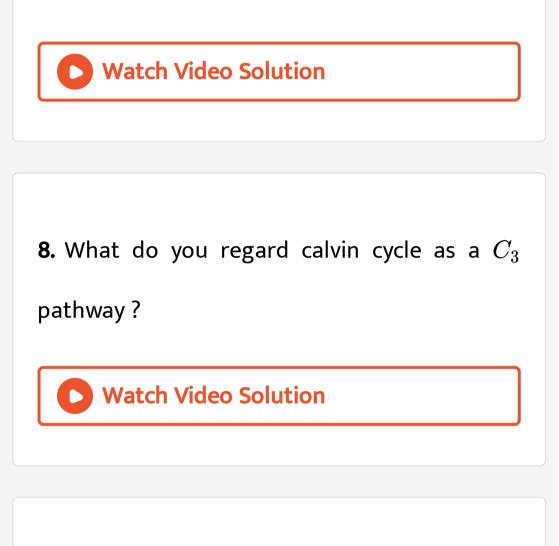
3. Name the first stable intermediate

compound formed during calvin cycle.

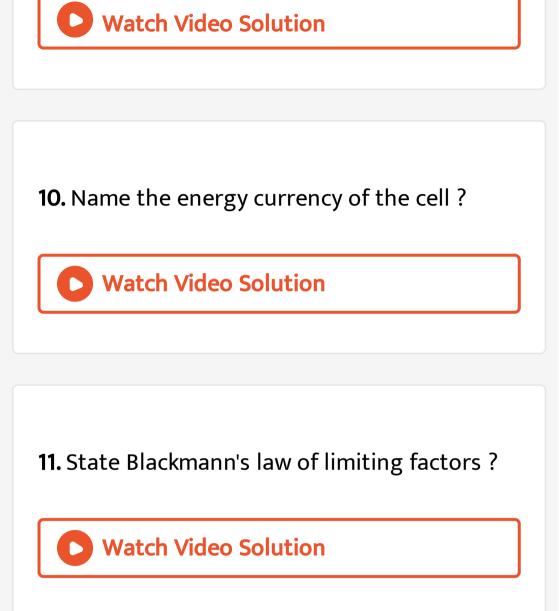
4. What is the Red drop effect ?

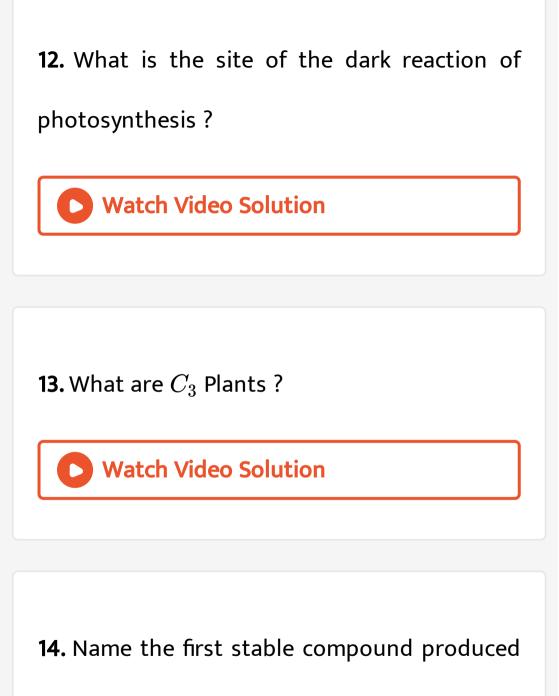


7. What is photoionization of water ?

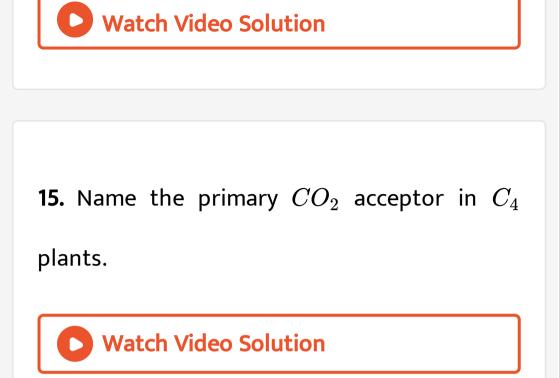


9. Name the metallic ion associated with chlorophyll molecule.





in CAM plants.



16. By looking at a plant externally can you tell

whether a plant is C_3 or C_4 ? Why and how?



1. Draw a neat tabelled diagram of a

chloroplast?

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2. What are the end products of light reaction

of photosynthesis?

3. List any four differences between cyclic and

non-cyclic photosynthesis.

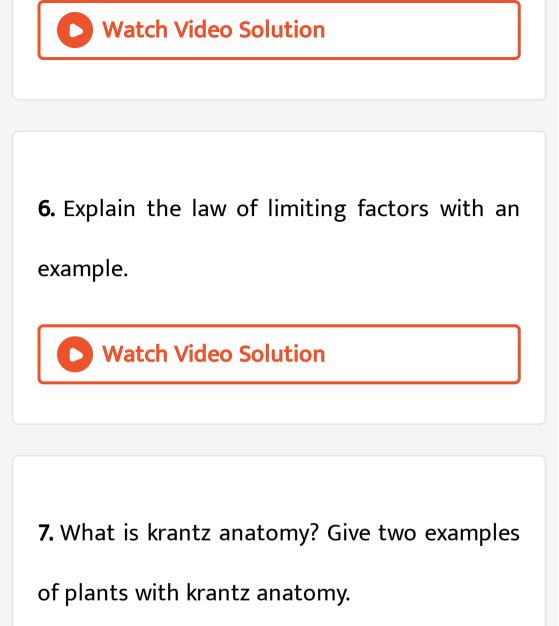


4. Give the schematic representation of a cyclic

photo phosphorylation.

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



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



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?



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 ?

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.



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.

2. Give the schematic representation of Calvin

 cycle/C_3 pathway.

