



BIOLOGY

NCERT - NCERT Biology(HINGLISH)

NUTRITION IN PLANTS

Exercise

1. Why do organisms need to take food?



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2. Distinguish between a parasite and a saprotroph



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3. How will you test for the presence of starch in a leaf?



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4. Give a brief description of the process of synthesis of food in green plants.



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5. Show with the help of a sketch that the plants are the ultimate source of food.



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6. Green plants are called _____ since they synthesise their own food.

A. Autotrophs

B. Heterotrophs

C. Saprotrophs

D. None of the above

Answer: A



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7. The food synthesised by the plants is stored as _____.

A. Water

B. Starch

C. Fructose

D. Nutrients

Answer: B



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8. In photosynthesis solar energy is captured by the pigment called _____.



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9. During photosynthesis plants take in _____ and release _____.

A. CO₂ and Water

B. O₂ and CO₂

C. CO₂ and O₂

D. N₂ and CO₂

Answer: C



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10. Name the following:

A parasitic plant with yellow, slender and tubular stem.



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11. Name the following:

A plant that has both autotrophic and heterotrophic mode of nutrition



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12. Name the following:

The pores through which leaves exchange gases.



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13. Tick the correct answer:

Amarbel is an example of

A. autotroph

B. parasite

C. saprotroph

D. host

Answer:



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14. The plant which traps and feeds on insects is :

A. Cuscuta

B. china rose

C. pitcher plant

D. rose

Answer:



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15. Match the item given in Column I with those in Column II

Column I

Chlorophyll

Nitrogen

Amarbel

Animals

Insects

Column II

Bacteria

Heterotrophs

Pitcher plant

Leaf

Parasite



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16. Mark 'T' if the statement is true and 'F' if it is false:

Carbon dioxide is released during photosynthesis. (T/F)



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17. Mark 'T' if the statement is true and 'F' if it is false:

Plants which synthesise their food themselves are called saprotrophs. (T/F)



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18. Mark 'T' if the statement is true and 'F' if it is false:

The product of photosynthesis is not a protein. (T/F)



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19. Mark 'T' if the statement is true and 'F' if it is false:

Solar energy is converted into chemical energy during photosynthesis. (T/F)



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20. Choose the correct option from the following:

Which part of the plant takes in carbon dioxide from the air for photosynthesis?

A. Root hair

B. Stomata

C. Leaf veins

D. Sepals

Answer: B



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21. Choose the correct option from the following:

Plants take carbon dioxide from the atmosphere mainly through their:

A. roots

B. stem

C. flowers

D. leaves

Answer: D



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