BIOLOGY

NCERT - NCERT BIOLOGY(TELUGU)

NUTRITION -FOOD SUPPLYING SYSTEM

Improve Your Learning

1. Write differences between

autotrophic nutrition - heterotrophic nutrition

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2. Write differences between

Ingestion - digestion

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3. Write differences between

Light reaction - dark reaction

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4. Write differences between

Chlorophyll - chloroplast

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5. Give reasons

Why photosynthesis is considered as the basic

energy source for most of living world?

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6. Give reasons

Why is it better to call the dark phase of photosynthesis as a light independent phase?

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7. Give reasons

Why is it necessary to destrach a plant before performing any experiment on photosynthesis?

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8. Give reasons

Why is it not possible to demonstrate respiration in green plant kept in sunlight?

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9. Give examples

Digestive enzymes

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10. Give examples of organisms exhibiting heterotrophic nutrition

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11. Give examples

Vitamins

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12. Give examples

Nutritional deficiency diseases

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13. From where do plants get the raw materials required for photosynthesis ?

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14. Explain the necessary conditions for autotrophic nutrition and what are its by products?

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15. With the help of chemical equation explain the process of photosynthesis in detail?

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16. Name the three end products of photosynthesis?

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17. What is the connecting substance between light reaction and dark reaction?

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18. In most of leaves the upper surface will be more green and shiny than the lower surface. Why?

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19. Explain the structure of chloroplast with a neat labelled sketch.

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20. What is the role of acid in stomach?

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21. What is the function of digestive enzyme?

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22. How is the small intestine designed to assimilate the food? explain.

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23. How are fats digested? Where do they get digested?

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24. What is the role of saliva in the digestion of food?

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25. What will happen to protein digestion as the medium of intestine is gradually rendered alkaline ?

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26. What is the role of roughages in the alimentary tract?

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27. What is malnutrition explain some nutrition deficiency diseases.

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28. How do nongreen plants such as fungi and bacteria obtain their nourishment?

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29. If we keep on increasing CO_2concentration in air what will be the rate of photosynthesis?

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30. What happens if the rate of respiration is more than the rate of photosynthesis in a plant?

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31. How can you say that the carbohydrates are not digested in the stomach?

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32. How would you test the presence of starch on leaves?

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33. How would you demonstrate that green plants release oxygen when exposed to light ?

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34. Visit a doctor and find out keeping in view of digestion. Prepare a chart and display in your classroom. Under what conditions does a patient need a drip of glucose?

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35. Visit a doctor and find out keeping in view of digestion. Prepare a chart and display in your classroom. Till when a patient needs to be given glucose?

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36. Visit a doctor and find out keeping in view of digestion. Prepare a chart and display in your classroom. How does the glucose help the patient to recover?

37. If there were no green plants, all life on the earth would come to an end! Comment?

38. Draw a neatly labeled diagram of chloroplast found in leaf, and its role in photosynthesis?

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39. Draw the labelled diagram of human digestive system? List out the parts where peristalsis takes place.

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40. Raheem prepared a model showing the passage of the food through different parts of the alimentary canal? Observe this and label it's parts.

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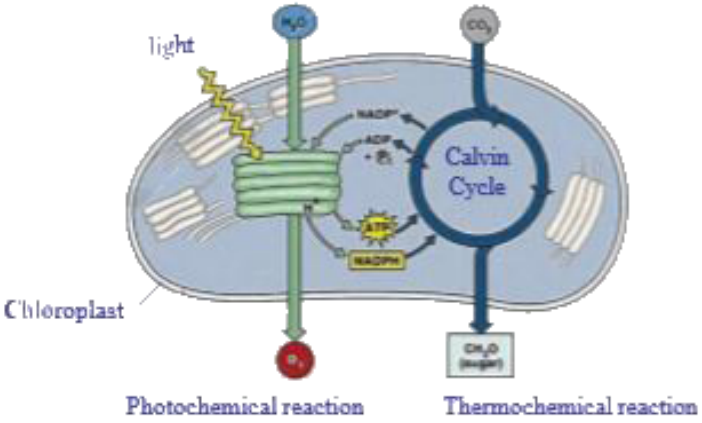
41. Observe the following diagram and write a note on light dependent, light independent

reactions.



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42. Almost all the living world depends on plants for food material. How do you appreciate the process of making food by the green plants?

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43. Even a hard solid food also becomes smooth slurry in the digestive system by the enzymes released at a particular time. This mechanism is an amazing fact. Prepare a cartoon on it.

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44. What food habits do you follow after reading this chapter? Why?(Nutrition-food supplying system)

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Fill In The Blanks

1. The food synthesized by the plant is stored as _____.

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2. _____ are the sites of photosynthesis.

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3. Pancreatic juice contains enzymes for carrying the process of digestion of _____ and _____.

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4. The finger like projections which increases the surface area in small intestine are called_____.

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5. The gastric juice contains _____ acid.

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6. _____ vitamin is synthesised by bacteria present in intestine.

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Choose The Correct Answer

1. Which of the following organisms take the food by parasitic nutrition ?

A. 1. Yeast

B. 2. Mushrooms

C. 3. Cuscutta

D. 4. Leeches

Answer:

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2. The rate of Photosynthesis is not affected by.

A. 1. Light Intensity

B. 2. Humidity

C. 3. Temperature

D. 4. Carbon dioxide concentration

Answer:

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3. A plant is kept in dark for about forty eight hours before conducting any experiment on Photosynthesis in order to :

A. Remove chorophyll from leaves

B. Remove starch from leaves

C. Ensure that no photosynthesis occurred

D. Ensure that leaves are free from the starch

Answer:

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4. The digestive juice without enzyme is

A. Bile

B. Gastric juice

C. Pancrtatic juice

D. saliva

Answer:

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5. In single celled animals the food is taken

A. By the entire body surface

B. Mouth

C. Teeth

D. Vacuoles

Answer:

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6. Which part of the plant takes in carbondioxide from the air for photosynthesis

A. Root hair

B. Stomata

C. Leaf veins

D. Sepals

Answer:

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