



BIOLOGY

BOOKS - VGS BRILLIANT BIOLOGY (TELUGU ENGLISH)

NUTRITION- FOOD SUPPLYING SYSTEM

Textual Lesson Part Review Of Your Previous Knowledge

1. What are heterotrophs? How do heterotrophs get their food ?



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2. What are autotrophs ? How do autotrophs get their food ?



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Improve Your Learning Conceptual Understanding

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

Nutrition in autotrophs occurs when there is light and without light also. What is the difference between

these two situations ?

Differentiate the reactions that take place in presence of light and the reactions which do not require light in photosynthesis.



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5. Write differences between

Chlorophyll - Chloroplast :



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6. Give reasons.

Why photosynthesis is considered as the basic energy

source for most of living world?



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7. Give reasons.

How can we say that photosynthesis is the basic energy source for the living world ?



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8. Give reasons.

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



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9. Give reasons.

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



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10. Give reasons.

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



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11. Give examples.

Digestive enzymes



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12. Give examples.

Organisms having heter()trophic nutrition



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13. Give examples.

Vitamins



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14. Give examples.

Nutritional deficiency diseases



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15. Where do plants get each of the raw materials required for photosynthesis ?



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



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17. With the help of chemical equation explain the process of photosynthesis in detail with the help of flow chart.

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18. Name the three end products of photosynthesis.

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



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20. Most leaves have the upper surface more green and shiny than the lower ones. Why?



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21. Explain the structure of cell organelle that performs the photosynthesis, with the help of a labelled diagram.



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22. Explain the structure of cell organelle that performs the photosynthesis, with the help of a labelled diagram.



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23. Explain the structure of cell organelle that performs the photosynthesis, with the help of a labelled diagram.



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24. What is the role of acid in stomach ?



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25. What is the function of digestive enzyme ?



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26. Describe with diagram how villi are helpful in absorption of digested food in small intestine.



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27. How digested food is absorbed in small intestine ?



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28. How is the digested fat absorbed?



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29. What is emulsification ? How does it help in digestion of fats ?



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



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



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



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



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34. What is malnutrition? Explain some nutrition deficiency diseases.



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Improve Your Learning Asking Questions And Making Hypothesis

1. How do non-green plants such as fungi and bacteria obtain their nourishment?



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2. If we keep on increasing CO_2 concentration in the air, what will be the rate of photo-synthesis?



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3. What happens to plant if the rate of respiration becomes more than the rate of photosynthesis ?



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4. Why do you think that carbohydrates are not digested in the stomach ?



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Improve Your Learning Experimentation And Field Investigation

1. Rajani told that "Chapatis will not digest in stomach".

Will you agree with her statement? Why ?



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2. What chemical do we use to test the presence of starch ?



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3. Pushpa wants to conduct an experiment to know whether the starch is present in given leaf or not. For this,

a) what apparatus does she require ?

b) what procedure does she follow ?

c) what precautions does she need to take ?



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



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5. Write the experimental procedure to prove that oxygen is produced during photo-synthesis in the presence of light.

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6. Write the experimental procedure to prove that oxygen is produced during photo-synthesis in the presence of light.

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7. We have conducted experiment that proves the release of oxygen when photosynthesis happens ? i)

What are the plants used for this experiment ? Where do they grow ?

ii) How did you conduct the above experiment ? In which context are large number of air bubbles released? Did you notice?



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Improve Your Learning Information Skills And Projects

1. Collect information from your primary health centre of malnutrition child at various ages and make a table

your own and display in the classroom.

S.No.	Age group	No. of children with malnutrition		
		Proteins	Calories	Vitamins



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Improve Your Learning Communication Through Drawing Modal Making

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



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2. Would the survival of organisms become difficult if there are no green plants on the earth. How do you support ?



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3. Draw a neat labelled diagram of chloroplast found in leaf, and its role in photosynthesis.



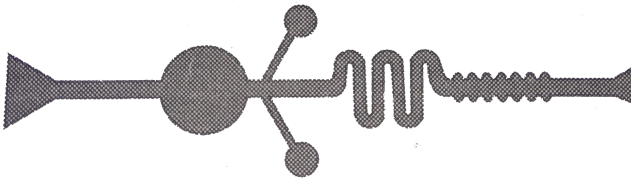
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4. Draw the labelled diagram of human digestive system. List out the parts where peristalsis takes place.



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5. Raheem prepared a model showing the passage of the food through different parts of the alimentary canal. Observe this and label its parts.



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

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Improve Your Learning Appreciation And Aesthetic Sense Values

1. 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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2. 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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3. 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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Improve Your Learning Application To Daily Life Concern To Biodiversity

1. What food habits are you going to follow after reading this chapter (Nutrition - Food supplying system) ? Why ?

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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. Name the finger like projection which increase the surface area of absorption in small intestine.



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5. The gastric juice contains acid.



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6. vitamin is synthesized 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. Yeast

B. Mushrooms

C. Cuscuta

D. Leeches

Answer: A::C::D



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2. The rate of photosynthesis is not affected by

A. Light intensity

B. Humidity

C. Temperature

D. Carbon dioxide concentration

Answer: B





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

- A. Remove chlorophyll from leaves
- B. Remove starch from leaves
- C. Ensure that no photosynthesis occurred
- D. Ensure that leaves are free from the starch

Answer: B



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4. The digestive juice without enzyme is

A. Bile

B. Gastric juice

C. Pancreatic juice

D. Saliva

Answer: A



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5. In single celled animals, the food is taken by

A. The entire body surface

B. Mouth

C. Teeth

D. Vacuoles

Answer: A



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

A. Root hair

B. Stomata

C. Leaf vein

D. Sepals

Answer: B



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Questions Given In The Lesson 1 Mark Questions

1. Can you think of some raw materials needed for photosynthesis ?



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2. What could be the end products of the process of photosynthesis ?



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3. Do you think solar energy transforms - into chemical energy by the process of photosynthesis ?



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4. Do you think solar energy transforms - into chemical energy by the process of photosynthesis ?



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5. Do you think the equation tells us about all the materials involved ?

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6. What had Priestly done to introduce the mint plant without disturbing the experiment set-up?

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7. What precautions do you need while removing test tube from the beaker? Discuss with your teacher.

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8. Which part of leaf turns blue black ? What about the remaining part ?

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9. Observe the colour of leaf stained with iodine. Can you tell why it is stained differently?

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10. What about plants having coloured leaves ?

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11. How is it, that new leaves which look dark red in colour in several plants turn green?

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12. What about plants having coloured leaves ?

 [Watch Video Solution](#)

13. Where are chlorophyll and other pigments present in the plant?

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14. What happens to the food once it enters our body ?



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15. Name the enzymes which act on carbohydrates.



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16. Which juice contains no enzymes ?



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17. What are the enzymes that act on proteins ?



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18. What do you think about the process of digestion?



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19. What are the major steps of digestion ?



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Questions Given In The Lesson 2 Marks Questions

1. How did Priestly light the candle from outside ?



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2. Do you find any relationship between candle, rat, and plant ? Discuss.



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3. Why was the plant kept in dark and then in sunlight ?



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4. Why did we study two leaves in this (Carbondioxide is necessary for photosynthesis) experiment?



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5. What made plants carry out photosynthesis while even green coloured animals (like some birds) could not?



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6. Do you think the new reddish leaves of plants also carry out photosynthesis ? What could be the role of

their colour ?



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7. What makes chloroplast appear completely different from other cell organelles?



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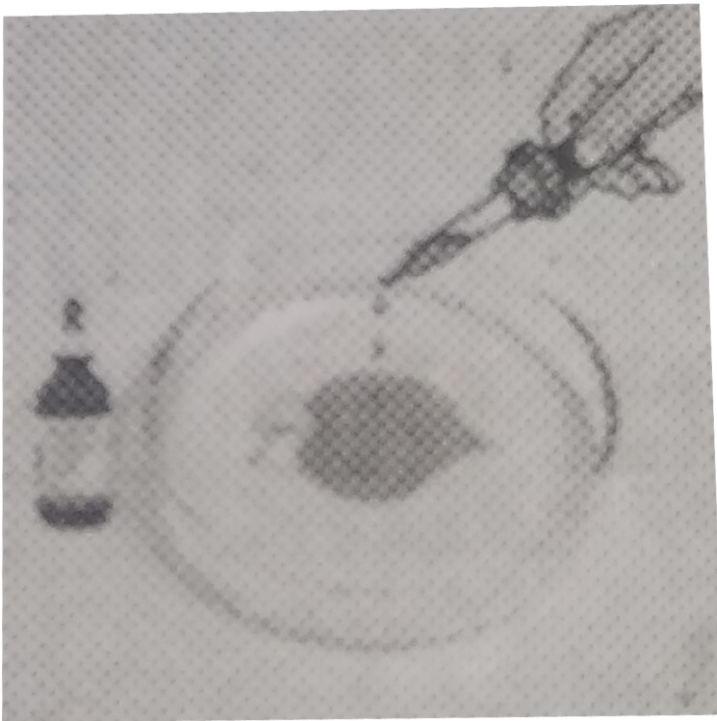
Questions Given In The Lesson 4 Marks Question

1. Collect information about pellagra and discuss with your teacher.



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Creative Questions For New Model Paper 1 2 Mark Questions



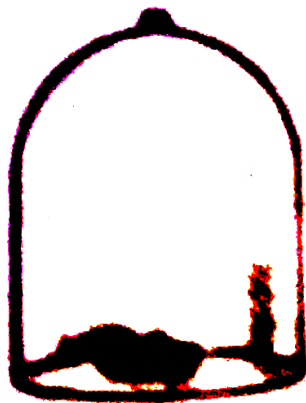
1.

Can you

name the test shown in the figure ?



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2.

Name

the scientist who conducted the given experiment.



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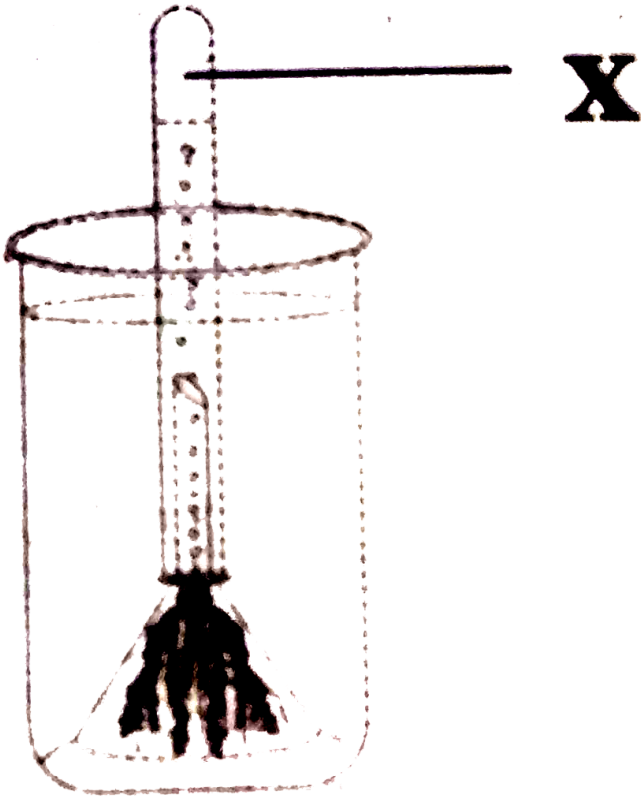
3. _____

Name _____

the labelled part 'x' in the above picture.



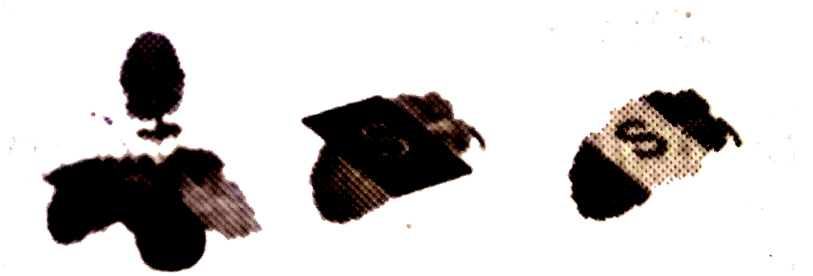
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4. What is the labelled part 'x' in the above picture ?

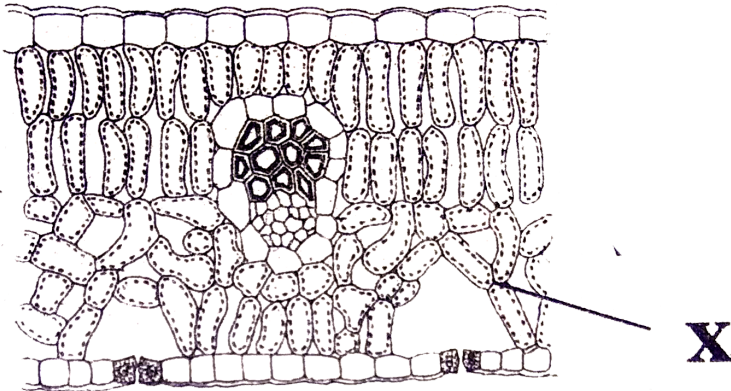


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5. What do you prove from this experiment ?

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6. What is the labelled part 'x' in- the above figure ?

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7.

What is

'x' in the above figure denotes?



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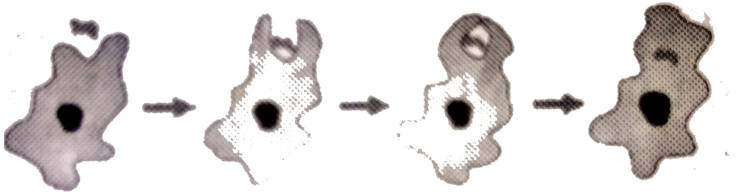
8.

Name

the labelled part 'x' in the above figure.



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9.

What is

the life process going on in Amoeba?



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10.

What

is the life process going on in Paramecium ?



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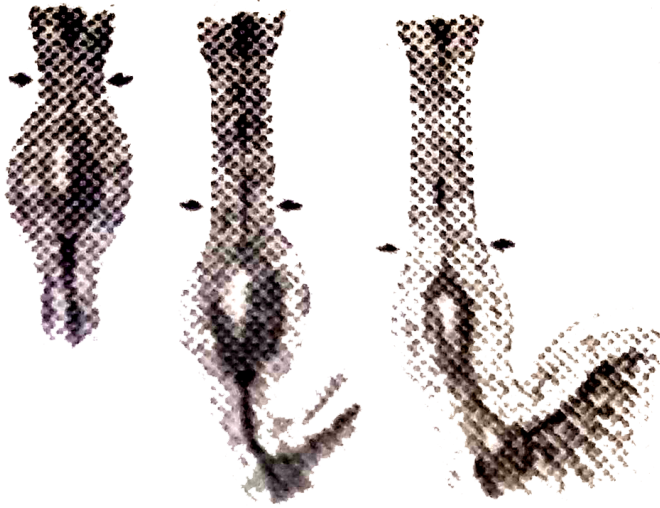
11.

The

above shown plant is an example for



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12.

What

does the given figure represent?



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13.

Two

boys shown in the figure are suffering from which malnutrition disease?



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14.

The.

boy in the picture has a malnutrition disease. What is that ?



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15.

The

boy in the picture is suffering from a health hazard.

What is that ?



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16.

The

disease shown in the above picture is a vitamin deficiency disease. What is it?



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17. Expand A. T.P.



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18. Expand NADPH.



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19. Expand A.D.P.



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20. Identify the scientist with the following lines.

His experiment confirmed that gaseous exchange was going on and plants were giving out a gas that

supported burning and was essential for the survival of animals.

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21. Identify the scientist with the help of the following paragraph.

He proposed the famous and well accepted chemical equation for photo-synthesis in the year 1931

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22. Identify the scientist with the help of the following paragraph.

He was a famous Dutch Scientist. He studied the way in which plants formed oxygen and they produce it in the presence of light only, in the year 1779.



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23. Identify the scientist with the help of the following lines.

In the early 20th century, he detected the point of maximum rate of photosynthesis. He conducted his experiments on the strands of algae exposed to different colours.



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24. Identify the scientist with the help of the following lines.

In the year 1817, they obtained an extract of the green coloured substance, named it chlorophyll, which means green leaf,



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25. Identify the scientist with the help of the following lines.

In 1883, he found that chlorophyll is present organelles within the cell. They are called chloroplasts.



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26. Identify the scientist with the help of the following lines.

In 1954, he able to break the cell so gently that whole chloroplasts could be obtained and observed the photosynthesis stages.



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27. Identify the scientist with the help of the following lines.

He discovered photolysis of water which means splitting by light. He proposed that

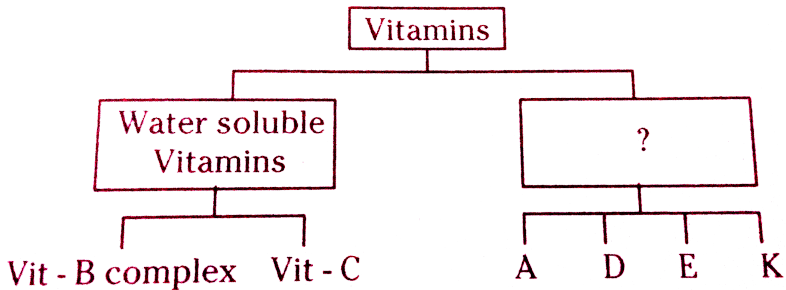


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28. Expand R.U.B.P.

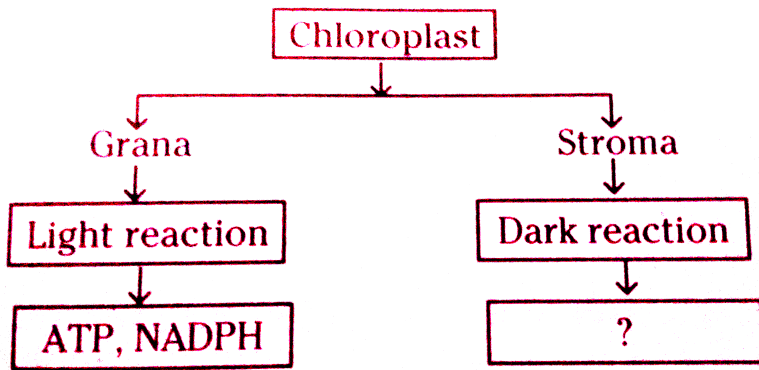
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29. Observe the following classification and complete the blank.



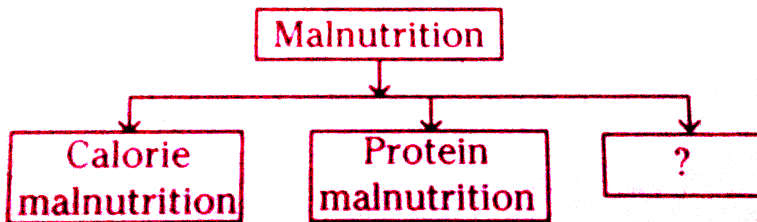
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30. Observe the classification and complete the blank.

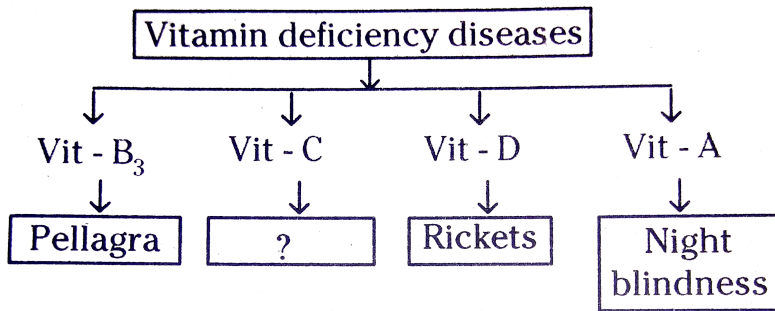


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31.



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32.

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33. I am a digestive juice. I have no enzymes. Who am I ?

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34. I am a vitamin. My deficiency causes pernicious anaemia. I am synthesized by bacteria in the intestine ?

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35. I am an enzyme produced by the salivary glands. 'I act on carbohydrates. Who am I ?



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36. I am a cell organelle. I can trap the solar energy and perform photosynthesis. Who am I ?



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37. I am a root like structure. I can penetrate into the tissue of the host plant. I can absorb food and water

from the host plants Who am I ?



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38. Identify the mis-matched pair.

- 1) Calciferol - Rickets
- 2) Phylloquinone -Sterility in females.
- 3) Ascorbic Acid -Scurvy.



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39. Identify the mis - matched pair.

- 1) Ptyalin - Carbohydrates

2) Pepsin - Fats

3) Lipase - Proteins



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40. Identify the mis - matched pair.

1) Carbohydrates - Amino acids

2) Proteins- Glucose

3) Fats - Fatty acids and glycerol



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41. Which of the following group does not represent digestive enzymes ?

A. Pepsin, Trypsin, Amylase, Lipase

B. Thyroxine, Adrenalin, Somatotrophin, Testosterone



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42. Which of the following group represent water soluble vitamins ?

A. Vit-A, Vit-D, Vit - K, Vit-E

B. B Complex, Vit - C



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43. Which group of the following does not represent the vitamin deficiency diseases?

A. Beri - beri, scurvy, pellagra, glossitis

B. Kwashiorkar, marasmus, diabetes, obesity



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44. Which -of the following group constitute the right passage of food in the alimentary canal ?

A) Food → mouth → buccal cavity → pharynx → oesophagus → stomach → large intestine → small intestine → anus → rectum

B) Food → mouth → buccal cavity → pharynx → oesophagus → stomach → small intestine → large-intestine → rectum → anus



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45. Read the sentence, find the error and rewrite it.

Dark -reaction takes place in stroma. That means it takes place when it is dark at night.



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46. Read the sentence, find the error and rewrite it.

The chlorophyll on exposure to sunlight becomes activated by absorbing electrons.



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47. Read the sentence, find the error and rewrite it.

In the dark phase, the hydrogen of the NADPH is used to combine with CO_2 by utilising photon energy and to produce glucose.



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48. Complete the following blanks.

It is a membranous structure, consisting of 3 layers, (1) site of photosynthesis. The third layer forms the stacked sac-like structures called as (2) site for trapping of solar energy.



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49. Complete the following blanks.

..... (1) are the universal food providers. It is possible due to the presence of a green pigment called (2).



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50. Complete the following blanks.

Chlorophyll is present (1) tissue. of plants .
..... (2) help in the opening and closing of stomata.



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51. Complete the following blanks.

We can observe (1) nutrition in animals like amoeba, paramoecium and in man..... (2) plant is an example for parasitic nutrition.



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52. Complete the following blanks.

Ptyalin and amylase acts on (1). Bile juice is secreted by (2) in digestive system.



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53. Complete the following blanks.

Kwashiorkor is due to the deficiency of(1) and

Marasmus occurs because of (2).



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54. Complete the following blanks.

.....(1) is due to over eating of excess calories in

take. It is a big health hazard. It leads to the diseases

like(2).



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55. I present in the sunrays. I am a smallest unit of light energy. Who am I?



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56. I am a vitamin. I am responsible for normal growth of the body. My deficiency leads to night blindness, and xerophthalmia. Who am I ?



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57. I am a vitamin. I am present in green leafy vegetables and milk. I am responsible for blood clotting.

Who am I ?



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58. The following placards are prepared in your school for conducting a rally. Can you name the occasion to use them ?

Take nutritious diet -
Be healthy

Today's healthy
children -
Tomorrow's wealthy
citizens

Be fit - Be healthy

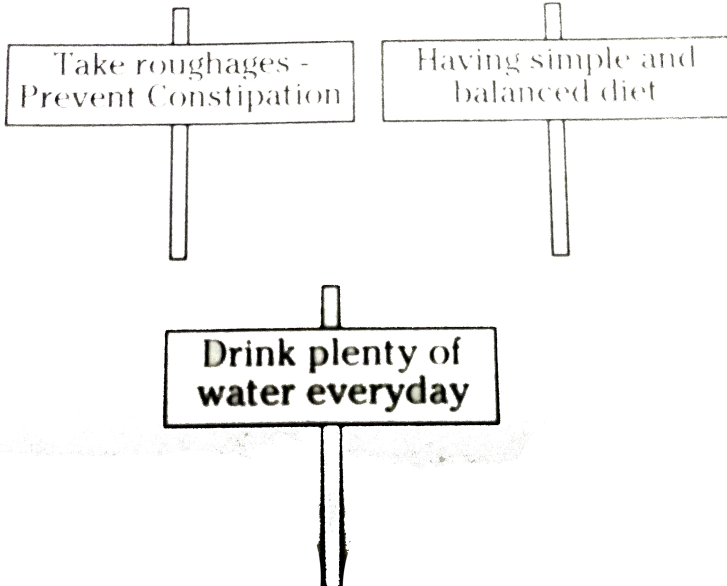
Take natural food -
avoid junk food



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59. The following placards are prepared by your friends.

IN which occasion do you use them ?



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60. Identify the mismatched pair.

1) Folic Acid - Anaemia

2)Cyanocobalamine - Pernicious anaemia

3) Pantothenic acid - glossitis.



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61. Retinol : Vitamin - A, Ascorbic Acid :



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62. Rickets : Vitamin - D , Night blindness : ?



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63. Kwashiorkar : Protein deficiency , Marasmus : ?



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64. Lipase : Fats , Trypsin : ?



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65. Light reacion : Grana , Dark reaction : ?



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66. Amoeba : Holozoic nutrition , Mushroom : ?



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67. Cuscuta : Parasitic adaptation , Rhizobium : ?



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68. Mohl's leaf experiment : Importance of CO_2 Light
screen experiment : ?



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69. ATP : Energy currency , ATP and NADPH: ?



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70. Photosynthetic phase : ATP and NADPH Biosynthetic phase : ?



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71. Observe the statements and identify the correct statement.

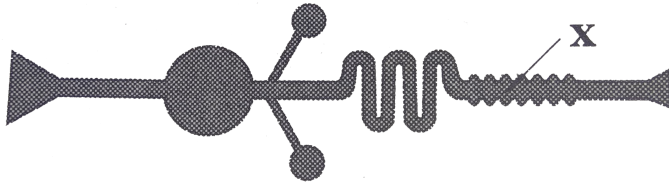
a) Autotrophs are the organisms capable of trapping solar energy.

b) The chemical formula of glucose is $C_6H_{11}O_6$



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72. A student prepared a model of alimentary canal just as shown below.



Name the labelled part 'x' in the above picture.

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73. Identify the mismatched pair.

- 1) Tapeworm -Saprophytic Nutrition
- 2) Mushroom -Parasitic Nutrition
- 3) Green plants -Autotrophic Nutrition

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74. Identify the mis-matched pair.

1) Trypsin - Gastric glands

2) Pepsin - Pancreas

3) Bile - Liver



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75. Oxygen: ·21%, Carbondioxide:



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76. Complete the blanks.

..... (1) is very essential for the synthesis of nucleic acids (2) vitamin is required for the formation of collagen.



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77. Green plants: Roots, Cuscuta:



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78. When we put a glowing splinter at the mouth of the test tube. It would burn into flames. What might be the

gasevolved?



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79. Complete the blanks.

..... (1) is considered as the smallest units of solar energy (2) of chloroplast trap this solar energy.



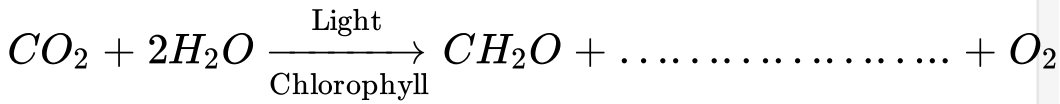
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80. Who conducted the famous bell - jar experiment using mint plant, rat and candle?



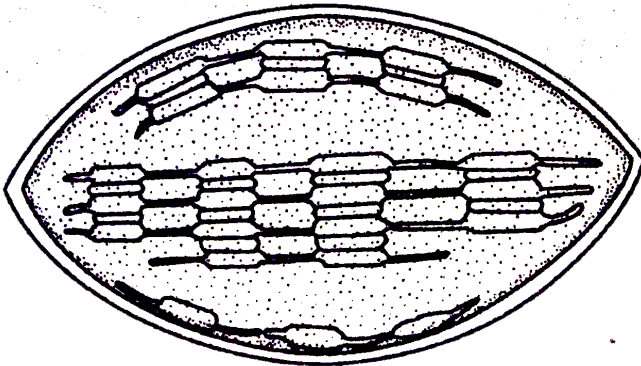
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81. Find the missing product in the equation.



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82. What is the name of the cell organelle?



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83. What symptoms do you observe in the disease caused due to the deficiency of vitamin-A ?



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84. In the light reaction, light energy is converted into chemical energy, photolysis of water, and CO_2 is converted into glucose.

All these reactions takes place in



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85. Pepsin : Proteins :: Lipase : ?



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86. Parasitic nutrition : Cuscuta :: Saphrophyte: ?



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87. Your teacher conducted an experiment "Oxygen is evolved during photosynthesis" by using Hydrilla plant. If Hydrilla plant not available, which plants can be used in that experiment?



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88. Identify the mis-matched pair.



[Watch Video Solution](#)

89. Identify the incorrect of the following pairs.

Calciferol - Rickets

Biotin - Anaemia

Ascorbic acid - Scurvy

Niacin - Pellagra



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90. Fill the following flow chart with correct organs A &

B.

Duodenum → Small Intestine

↑ ↑
Bile → B

Anus ← Rectum ← A

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91. A person suffering from improper formation of bones, knockness, swollen wrists and delayed dentition.

What might be the reason ?

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92. Find out wrong pair .

Saliva - Ptyaline

Pancreatic juice - Amylase

Gastric juice - Lipase

Intestinal juice - Peptidose



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93. What is the reason to keep a plant in dark for 48 hours to know photo-synthesis experiment in plants ?



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94. I found that water was essential for the increase of plant mass. Name that scientist.



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95. I am a sphincter . I allow the chyme in small quantities into the duodenum who am I ?



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96. Find out who am I.

I am a vitamin. Healing of wounds , fracture of bones

does not takes place in the absence of me. I am in vegetables , citrus fruits and in germinating seeds.



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97. Observe the diagram and identify the part X'.





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98. Identify the mismatched pairs:

- (1) Vitamin-A – Pellagra
- (2) Vitamin-C – Night blindness
- (3) Vitamin-D – Rickets



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99. Mitochondria : Power house of the cell,ATP: ?

.....

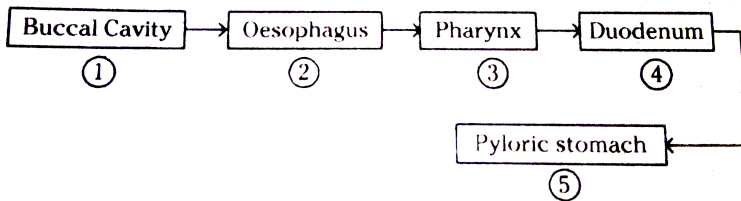


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100. Green plants : roots , Cuscuta : ?

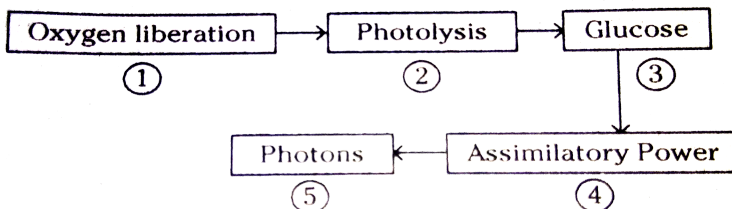
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101. Arrange the now chart in the correct order ?



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102. Arrange the now chart in the correct order ?





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103. Find out the missing thing from the table.

AP - SCERT New Model Paper - 2019 ()

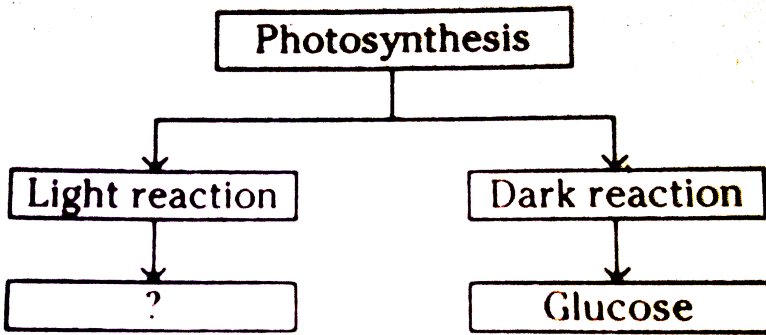
Type of pyramid	Base
Pyramid of number	Number of organism
?	Flow of energy

11 15 11



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104. Complete this flow chart.

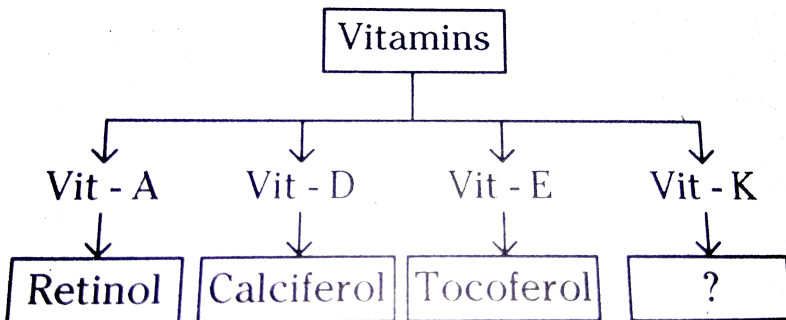


ATP, NADPH



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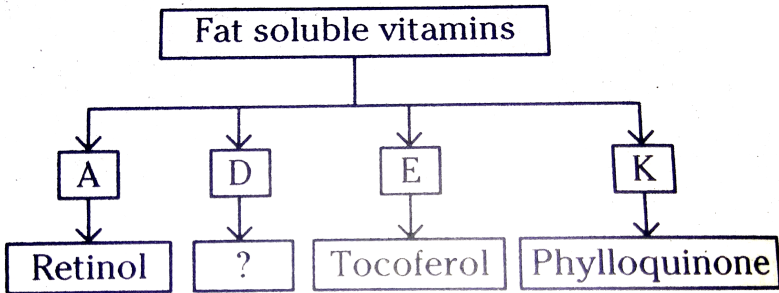
105. Fill this now chart





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106. Complete this now chart.



Watch Video Solution

107. Complete this table.

Enzyme	Location of release
1) Pepsin	Stomach
2) Trypsin	?



Watch Video Solution

108. Complete this table.

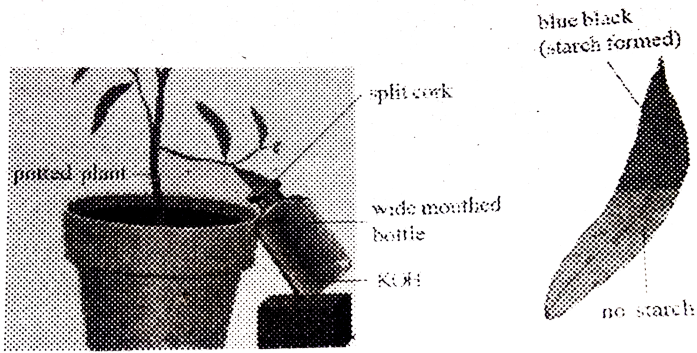
Type of food	End products
1) Carbohydrates	Glucose
2) Proteins	?

 Watch Video Solution

109. Complete this table.

Enzyme	Organ of release
1) Ptyalin	Salivary glands
2) Amylase	?

 Watch Video Solution

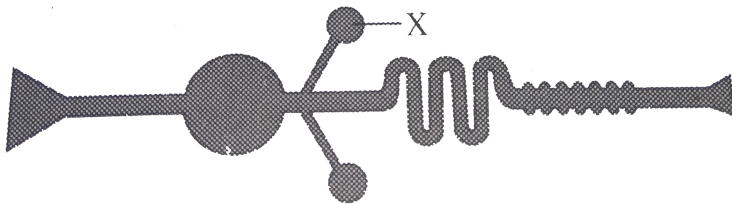


110.

The aim of the above experiment to prove the importance of In photosynthesis.



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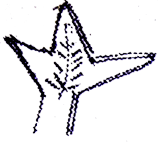
111.

In the above model of digestive system X denotes

.....



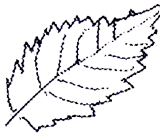
 Watch Video Solution



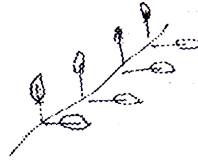
1



2



3



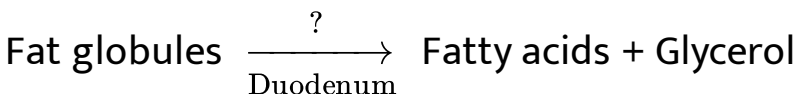
4

112.

Which is the correct leaf for the experimenter to prove CO_2 is essential for photosynthesis ?

 Watch Video Solution

113. What is the enzyme involved in the following reaction ?



 Watch Video Solution

Creative Questions For New Model Paper Preparation Questions For The Examination Purpose

1. Name the acid that is present in gastric juice.



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2. Where do you find haustoria?



[Watch Video Solution](#)

3. What are the end products of carbohydrates in digestion ?



[Watch Video Solution](#)

4. What are the end products of proteins in digestion ?



[Watch Video Solution](#)

5. What are the end products of fats in digestion?



[Watch Video Solution](#)

6. What chemical do we use to test the presence of starch ?



[Watch Video Solution](#)

7. Deffoiency of folic acid results in?



[Watch Video Solution](#)

8. What is the function of stomata in plants?



[Watch Video Solution](#)

9. What Is the reason for occurrence of Marasmus disease ?



[Watch Video Solution](#)

10. What is the reason for the occurrence of Kwashiorkor disease in children ?



[Watch Video Solution](#)

11. In which form do plants store their food?



[Watch Video Solution](#)

12. What is the result of improper mastication of food ?



[Watch Video Solution](#)

13. Name the gas that is liberated at the end of photosynthesis.



[Watch Video Solution](#)

14. Which gas is utilised by the plants during photosynthesis ?



[Watch Video Solution](#)

15. Name the water soluble vitamins.



Watch Video Solution

16. Name the fat soluble vitamins.



Watch Video Solution

17. What is the site of photosynthesis ?



Watch Video Solution

18. Name the pigment present in chloroplast.





[Watch Video Solution](#)

19. Can you guess, why the leaf is green in colour?



[Watch Video Solution](#)

20. What is the end product of photosynthesis?



[Watch Video Solution](#)

21. Give an example for parasitic plant.



[Watch Video Solution](#)

22. What symptoms do you observe in the disease caused due to the deficiency of vitamin-A ?



[Watch Video Solution](#)

23. What are the important factors of photosynthesis ?



[Watch Video Solution](#)

24. In which cell organelle, photolysis of water takes place ?



[Watch Video Solution](#)

25. In which part of chloroplast, the light reaction takes place ?



Watch Video Solution

26. What is the use of haustoria in *Cuscuta*?



Watch Video Solution

27. What reagent do you use to prove action of saliva on starch ?



Watch Video Solution

28. Name the vitamin that is present in pulses, liver, milk, kidney etc. It's deficiency causes nervous disorders.



Watch Video Solution

29. What do plants compete for ?



Watch Video Solution

30. What type of nutrition do you find in Cuscuta?



Watch Video Solution

31. What type of nutrition do you find in mushrooms?



Watch Video Solution

32. What type of nutrition do you observe in green plants ?



Watch Video Solution

33. Name the nutrition do you observe in animals.



Watch Video Solution

34. What are the enzymes that act on proteins in digestion ?



Watch Video Solution

35. What is the aim of Hydrilla plant experiment in photosynthesis?



Watch Video Solution

36. Which vitamin deficiency is responsible for Rickets ?



Watch Video Solution

37. What is the vitamin that is available in sunlight ?



[Watch Video Solution](#)

38. What is the chemical name of Vitamin-A ?



[Watch Video Solution](#)

39. What is the chemical name of Vitamin-C ?



[Watch Video Solution](#)

40. What is the enzyme present in saliva?

 [Watch Video Solution](#)

41. The vitamin that helps in healing the wounds?

 [Watch Video Solution](#)

42. Name the digestive juice without enzymes .

 [Watch Video Solution](#)

43. Name the digestive juice that helps in emulsification of fats.

 [Watch Video Solution](#)

44. What is the use of KOH solution in Mohl's half leaf experiment ?



Watch Video Solution

45. A person is suffering from improper formation of bones, knockness, swollen wrists and delayed dentition what might be the reason ?



Watch Video Solution

46. Splitting of water molecule during photosynthesis is known as ?



[Watch Video Solution](#)

47. What are the assimilatory powers formed at the end of light reaction ?



[Watch Video Solution](#)

48. Which substance undergoes reduction in dark phase - I ?



[Watch Video Solution](#)

49. What are the end products of dark reaction ?

 [Watch Video Solution](#)

50. What are the locomotory organelles of Amoeba?

 [Watch Video Solution](#)

51. What is the reason to keep a plant in dark for 48 hours to conduct experiments on photosynthesis in plants?

 [Watch Video Solution](#)

52. In which place of digestive system, complete digestion of ,carbohydrates, proteins and fats takes place ?



[Watch Video Solution](#)

53. Bile juice is secreted from.....



[Watch Video Solution](#)

54. Name the partially digested food in the mouth.



[Watch Video Solution](#)

55. Name the partially digested food in stomach.



[Watch Video Solution](#)

56. What do you call the completely digested food in small intestine ?



[Watch Video Solution](#)

57. What is the location of pyloric sphincter ?



[Watch Video Solution](#)

58. In which part of the alimentary canal the water from undigested waste is reabsorbed?



Watch Video Solution

59. What is the use of villi in small intestine ?



Watch Video Solution

60. What is the result of deficiency of vitamin - Thiamine ?



Watch Video Solution

61. What is the reason for the occurrence of Glossitis ?



Watch Video Solution

62. Name the vitamin responsible for the coagulation of blood.



Watch Video Solution

63. What is the first enzyme to mix with food in the digestive system?



Watch Video Solution

64. Where are proteins first digested in the alimentary canal?



Watch Video Solution

65. Name the factor responsible for opening and closing of stomata.



Watch Video Solution

66. Name the digestive juice that contains hydrochloric acid.



Watch Video Solution

67. What is the vitamin, synthesized by bacteria present in the intestine ?



Watch Video Solution

68. Which colour will indicate the presence of starch in the leaves of a plant after Iodine test?



Watch Video Solution

69. In which form the glucose is stored in plants after photosynthesis?



Watch Video Solution

70. Name the scientist who found that water was essential for increase of plant mass.



[Watch Video Solution](#)

71. Who coined the name oxygen ?



[Watch Video Solution](#)

72. Who discovered chloroplasts in plants?



[Watch Video Solution](#)

73. What is the process of taking food inside the body?



[Watch Video Solution](#)

74. What do villi consist of ?



[Watch Video Solution](#)

75. What happens in Hill reaction ?



[Watch Video Solution](#)

76. What is the reason for obesity?





[Watch Video Solution](#)

77. What is the role of acid in stomach ?



[Watch Video Solution](#)

78. Which vitamin is responsible for occurrence of "Pellagta" ?



[Watch Video Solution](#)

79. Obesity causes many diseases. Give two examples.



[Watch Video Solution](#)

80. The deficiency of which vitamin is responsible for the disease "Scurvy" ?



Watch Video Solution

81. Kamala is suffering from fertility disorders. What might be the reason for that?



Watch Video Solution

82. What is the exocrine and endocrine gland of our body ?



Watch Video Solution

83. Name the enzymes present in pancreatic juice.



Watch Video Solution

84. How many pairs of salivary glands are present in our mouth ?



Watch Video Solution

85. What is the digestive juice secreted by walls of small intestine?



Watch Video Solution

86. What is responsible for the easy movement of food bolus in the oesophagus ?



Watch Video Solution

87. The type of nutrition we can observe in Amoeba.



Watch Video Solution

88. How the leaves of Cuscuta are modified for its parasitic mode of life?



Watch Video Solution

89. Who discovered chloroplasts in plants?



Watch Video Solution

90. What is the colour of pigment chlorophyll -b ?



Watch Video Solution

91. What is the colour of pigment chlorophyll -a ?



Watch Video Solution

92. Name the scientists who are associated with the discovery of chlorophyll.



Watch Video Solution

93. Who conducted the bell jar experiment to prove the importance of oxygen?



Watch Video Solution

94. What are the internal factors of photosynthesis ?



Watch Video Solution

95. What are the external factors of photosynthesis ?



Watch Video Solution

96. Who formulated the photosynthesis equation?



Watch Video Solution

97. Why do we conduct Mohl's half leaf experiment in our school lab ?



Watch Video Solution

98. What are the functions of Pseudo- podia in Amoeba ?



Watch Video Solution

99. What happens if saliva is not secreted in mouth?



Watch Video Solution

100. What is the chemical name of Vitamin -D?



Watch Video Solution

101. What is the name of those cells in the leaf of a plant which control the opening and closing of stomata ?



Watch Video Solution

102. From which part of the body, undigested food is egested in Amoeba ?



Watch Video Solution

Creative Questions For New Model Paper 1 Mark Questions

1. What suggestions do you give to your friend suffering from constipation ?

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2. Give two examples for nutritional deficiency diseases.

 [Watch Video Solution](#)

3. Your neighbour's children appear with swollen legs, hands and other body parts. They have dry skin and frequently suffering from Diarrhoea. What are the reasons for it ? What suggestions do you give to their parent ?

 [Watch Video Solution](#)

4. Define photosynthesis.

 [Watch Video Solution](#)

5. What is photosynthesis ?

 [Watch Video Solution](#)

6. What is the balanced equation to show the process of photosynthesis ?

 [Watch Video Solution](#)

7. Bhumika told that "If there were no green plants, all life on the earth would come to an end" Comment.



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8. Which disease occurs in child when there is an immediate second pregnancy or repeated child births in a mother ?



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9. Prepare your own tabular column to get information about food deficiency diseases from a doctor.



[Watch Video Solution](#)

10. Why do we use KOH solution in Mohl's half-leaf experiment ?



[Watch Video Solution](#)

11. Why do we use KOH solution in Mohl's half-leaf experiment ?



[Watch Video Solution](#)

12. What questions will you ask a doctor to know about malnutrition ?



Watch Video Solution

13. What is the vitamin, synthesized by bacteria present in the intestine ?



Watch Video Solution

14. What is the digestive juice having no enzymes?



Watch Video Solution

15. One student takes high calorie food. Another student takes less calorie food. But both are affected with diseases. Name the diseases by which they are affected.

 [Watch Video Solution](#)

16. Mention the two chemicals which you have used in an experiment to test the presence of starch in the leaf.

 [Watch Video Solution](#)

17. Name the digestive juice without enzymes .

 [Watch Video Solution](#)

 [Watch Video Solution](#)

18. Doctors advise not to eat food items at the time of fever. What are the reasons for this?

 [Watch Video Solution](#)

19. If we chew the grains like wheat, jowar, rice we feel sweet. Why ?

 [Watch Video Solution](#)

20. Which type of teeth do you use when you eat peas and banana ?



[Watch Video Solution](#)

21. What is autotrophic nutrition ?



[Watch Video Solution](#)

22. What food habits are you going to follow after reading this chapter (Nutrition - Food supplying system) ? Why ?



[Watch Video Solution](#)

23. What are the complex molecules produced by plants from simple inorganic substances ?

 [Watch Video Solution](#)

24. What are the essential factors required for photosynthesis ?

 [Watch Video Solution](#)

25. What is the equation for photosynthesis proposed by C.B. Van Neil in the year 1931?

 [Watch Video Solution](#)

26. How does our digestive system get rid off spoiled food or poisoned food ?



[Watch Video Solution](#)

27. What chemical do we use to test the presence of starch ?



[Watch Video Solution](#)

28. Why does raw bread taste sweeter on mastication ?



[Watch Video Solution](#)

29. Which wavelength of light is best absorbed by chlorophyll ?



Watch Video Solution

30. What is the role of potassium hydroxide solution kept inside the glass bottle in the Mohl's half leaf experiment ?



Watch Video Solution

31. Who found that gas bubbles liberated from hydrilla plant contain the gas oxygen?



[Watch Video Solution](#)

32. Who coined the term chlorophyll for the extract of green coloured substance from the leaf?



[Watch Video Solution](#)

33. What is grana ?



[Watch Video Solution](#)

34. What is stroma ?



[Watch Video Solution](#)

35. What is the function of stroma ?



Watch Video Solution

36. What are the two major phases found in photosynthesis ?



Watch Video Solution

37. Why the light reaction . phase is called photochemical phase ?



Watch Video Solution

38. Where does the light reaction takes place ?



Watch Video Solution

39. What are the end products of light reaction ?



Watch Video Solution

40. How ,is glucose produced during dark reaction ?



Watch Video Solution

41. Write some of the events that occur in the chloroplasts during photosynthesis.



[Watch Video Solution](#)

42. What is photolysis of water ?



[Watch Video Solution](#)

43. What are guard cells ?



[Watch Video Solution](#)

44. How does CO_2 enter into leaf?



[Watch Video Solution](#)

45. Why are ATP and NADPH required in photosynthesis ?



[Watch Video Solution](#)

46. Why are chloroplasts green in colour ?



[Watch Video Solution](#)

47. What are the examples for parasitic organisms?



Watch Video Solution

48. What is ingestion ?



Watch Video Solution

49. Name the three pairs of salivary glands. What is the enzyme secreted by them ?



Watch Video Solution

50. What is the role of amylase in digestion of food ?



[Watch Video Solution](#)

51. What is digestion ?



[Watch Video Solution](#)

52. How does the food from oesophagus move into the stomach ?



[Watch Video Solution](#)

53. What is chyme ?



[Watch Video Solution](#)

54. What is the role of sphincters muscle present at the exit of stomach ?



[Watch Video Solution](#)

55. The gastric juice secreted by the walls of stomach contains



[Watch Video Solution](#)

56. What makes the internal condition of the intestine gradually to a basic or alkaline one ?



Watch Video Solution

57. What is emulsification ?



Watch Video Solution

58. What are the enzymes that act on proteins ?



Watch Video Solution

59. What is absorption ?



Watch Video Solution

60. What is defecation ?



Watch Video Solution

61. What are roughages in the food ?



Watch Video Solution

62. What are the parts of human digestive system ?



[Watch Video Solution](#)

63. What is balanced diet ?



[Watch Video Solution](#)

64. What are the nutrients present in balanced diet ?



[Watch Video Solution](#)

65. What is malnutrition ?



[Watch Video Solution](#)

66. What are the two sources of vitamins to our body ?



Watch Video Solution

67. Into how many groups are the vitamins classified ?



Watch Video Solution

68. Which vitamin deficiency causes sterility in males ?



Watch Video Solution

69. What is the chemical name of vitamin 'C' ? Deficiency of vitamin 'C' causes which disease?

 [Watch Video Solution](#)

70. What are heterotrophs ?

 [Watch Video Solution](#)

71. What are autotrophs ?

 [Watch Video Solution](#)

72. What was the opinion of C.B. Van Neil on the equation for photosynthesis ?

 [Watch Video Solution](#)

73. In plants gaseous exchange occurs through ?

 [Watch Video Solution](#)

74. From where do the aquatic plants get CO_2 to manufacture food ?

 [Watch Video Solution](#)

75. What are the causes for vomiting ?



[Watch Video Solution](#)

76. Why do we feel bilious or liverish ?



[Watch Video Solution](#)

77. What are the symptoms of disease pellagra?



[Watch Video Solution](#)

78. Which vitamin deficiency causes Rickets ? What are its symptoms ?



Watch Video Solution

79. For proper vision which vitamin is required ? What is its chemical name ?



Watch Video Solution

80. The leaves of a plant first prepare food A by photosynthesis. Food A then gets converted into food B. What are A and B ?





[Watch Video Solution](#)

81. What substances enter the food vacuole in Amoeba to break down the food ?



[Watch Video Solution](#)

82. What is the function of thylakoid membranes in chloroplast ?



[Watch Video Solution](#)

83. Imagine what happens if saliva does not secrete into mouth cavity.



[Watch Video Solution](#)

84. What did Priestly hypothesize on the experiment he conducted on the role of air in the growth of plants ?



[Watch Video Solution](#)

85. How will you appreciate role of tongue ?



[Watch Video Solution](#)

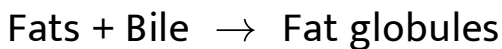
Creative Questions For New Model Paper 2 Mark Questions

1. Vitamin A, D, E and K are fat soluble vitamins. Write the deficiency diseases and resources of these vitamins in a tabular form.



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2. Look at the following equation and answer the questions:



a) What is the name of that reaction ?

b) Which gland plays major role in this reaction ?



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3. Prepare four questions for the Gastro-enterologist to know the problems that occur in-the digestive system.



[Watch Video Solution](#)

4. What questions do you ask your teacher to know about the obesity and its consequences ?



[Watch Video Solution](#)

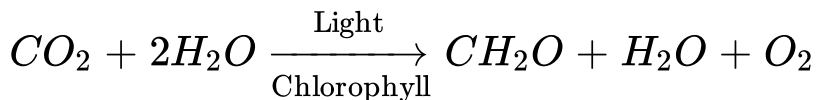
5. A doctor visited your school to check up the health of school children. What kind of questions do you ask to know about the pancreas ?





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6. Balance the following equation. Write what you have received through this equation.



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7. Pregnant ladies are advised to eat leafy vegetables and take folic acid pills. Why?



[Watch Video Solution](#)

8. You want to know about intestinal juice from your nearby doctor. What questions do you ask him ?



[Watch Video Solution](#)

9. Photosynthesis process provides food for all organisms. It mainly takes place by two phases. Light reaction is first phase.



What does the above equation shows iq light reaction?



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10. Write names of the given sentences.

Organelle in which photosynthesis occurs.



Watch Video Solution

11. Write names of the given sentences.

Life process in which complex food is converted into simple substances.



Watch Video Solution

12. Write names of the given sentences.

The part after large intestine in digestive tract.



 [Watch Video Solution](#)

13. Write names of the given sentences.

Deficiency of Vitamin "K" causing disease.

 [Watch Video Solution](#)

14. Briefly explain about saprophytic nutrition.

 [Watch Video Solution](#)

15. What is parasitic nutrition ? Write briefly about it.

 [Watch Video Solution](#)

16. Write about the nutrition in amoeba.



Watch Video Solution

17. What are the changes that take place in large intestine during digestion of food?



Watch Video Solution

18. How can we avoid indigestion ?



Watch Video Solution

19. Why the bile juice is considered important even though it does not contain any digestive enzymes ?



Watch Video Solution

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



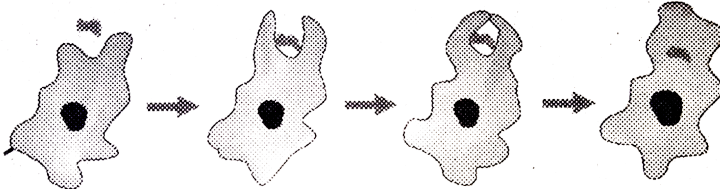
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21. Why the photosynthesis is important to world ?



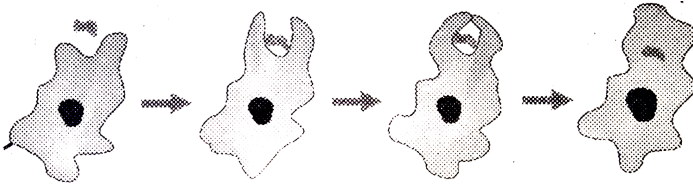
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22. Observe the following figure and add a note on it.



[▶ Watch Video Solution](#)

23. Describe the process of nutrition in amoeba.



[▶ Watch Video Solution](#)

24. What precautions should a person suffering from obesity take ?



Watch Video Solution

25. Write a short note on obesity.



Watch Video Solution

26. What are the ill effects of obesity ?



Watch Video Solution

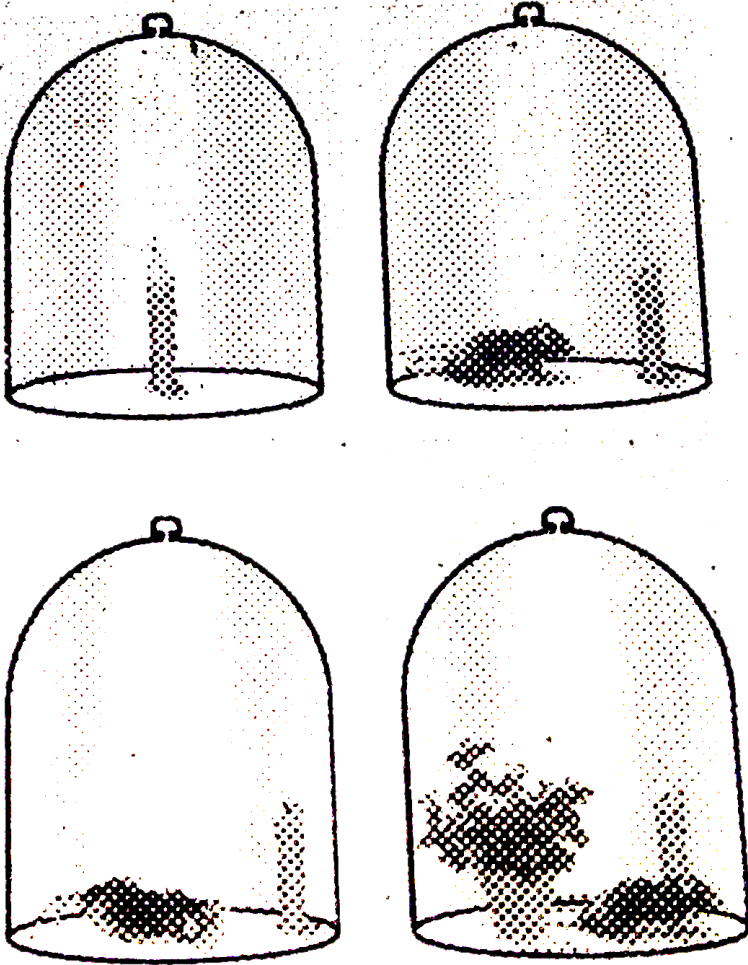
27. Plants are main source of food. Justify.



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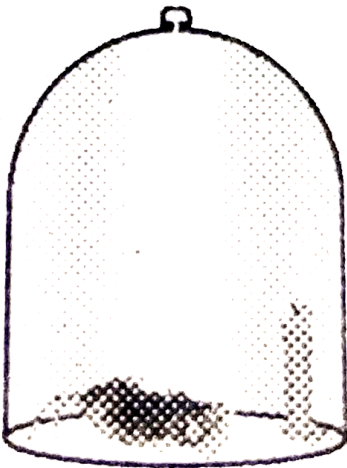
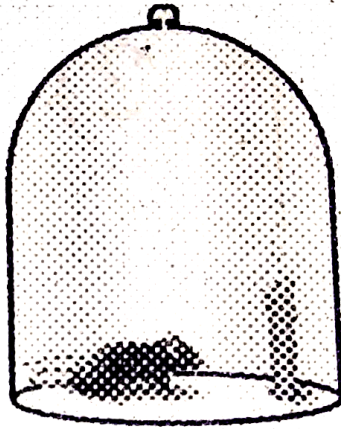
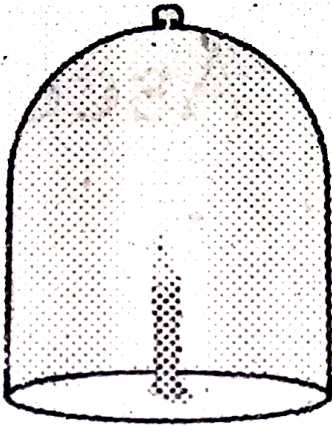
Creative Questions For New Model Paper 4 Mark Questions

1. Why did the candle extinguish ?



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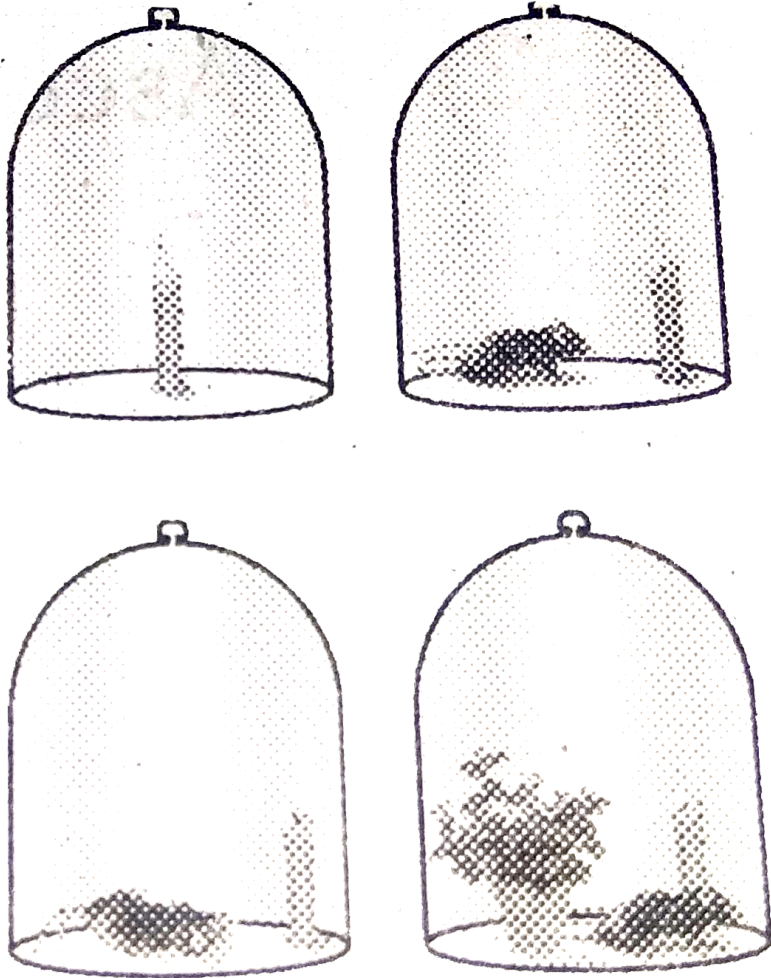
2. In this experiment, do you find any relationship between mint plant and rat ? Discuss.



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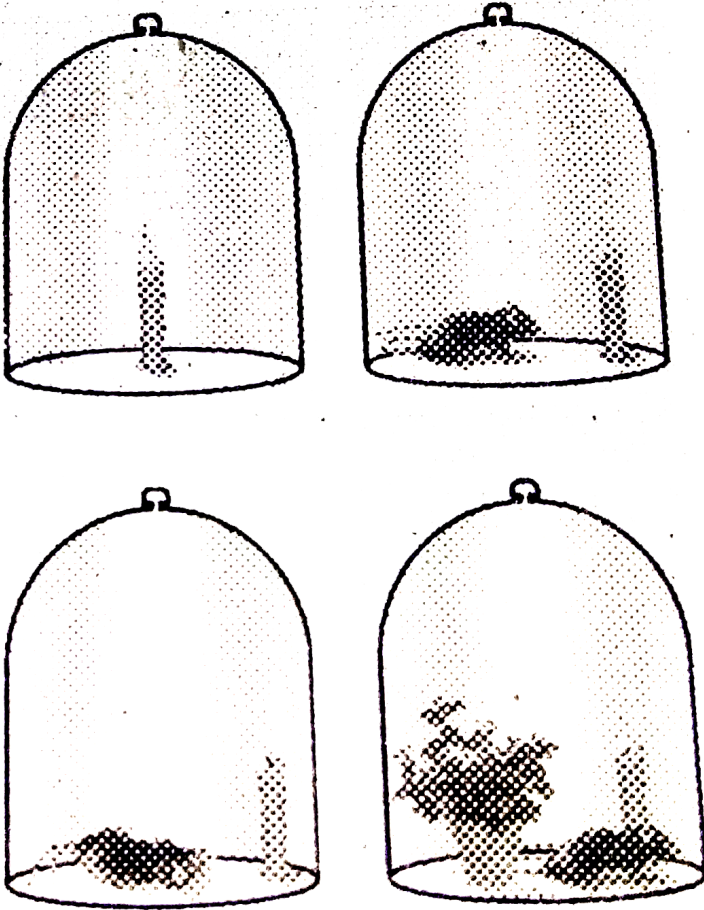
3. What were Priestly's observations in this experiment

?



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4. Why is the candle continuously burning, when the mint plant was kept inside the Bell jar ?



Watch Video Solution

5. You might have conducted an experiment in your school laboratory to prove that CO_2 is essential for Photosynthesis. Raju, who is in 9th class, wanted to perform the same experiment. He had some doubts regarding this experiment. Clarify them.

Prior to the experiment, the potted plant was kept in a dark room for a week. Why?



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6. You might have conducted an experiment in your school laboratory to prove that CO_2 is essential for Photosynthesis. Raju, who is in 9th class, wanted to perform the same experiment. He had some doubts

regarding this experiment. Clarify them.

KOH pellets were kept in the glass jar. Why ?

 [Watch Video Solution](#)

7. You might have conducted an experiment in your school laboratory to prove that CO_2 is essential for Photosynthesis. Raju, who is in 9th class, wanted to perform the same experiment. He had some doubts regarding this experiment. Clarify them.

Write the apparatus used to perform this experiment.

 [Watch Video Solution](#)

8. You might have conducted an experiment in your school laboratory to prove that CO_2 is essential for Photosynthesis. Raju, who is in 9th class, wanted to perform the same experiment. He had some doubts regarding this experiment. Clarify them.

What will be the result, if the same experiment is conducted in dark ?

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9. Read the table and answer the following questions.

Sl. No.	Vitamin	Resources	Deficiency disease	Symptoms
1)	Cyanoco - balamine	Synthesised by bacteria present in the intestine.	Pernicious anaemia	Lean and weak, less appetite.
2)	Ascorbic acid	Green leafy vegetables, citrus fruits, sprouts	Scurvy	Delay in healing of wounds, fractures of bones.
3)	Retinol	Leafy vegetables, carrot, tomato, pumpkin, papaya, mango, meat, fish, egg, liver, milk, Cod and Shark liver oil	Eye and skin diseases	Night Blindness, Xerophthalmia, Cornea failure, Scaly skin.
4)	Tocoferol	Fruits, vegetables, sprouts, sunflower oil	Fertility disorders	Sterility in males, abortions in females.
5)	Phylloquinone	Green leafy vegetables, meat, egg and milk	Problems related to blood clotting	Delay in blood clotting, over bleeding.

Name the anti-sterility vitamin from the above table.



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10. Read the table and answer the following questions.

Sl. No.	Vitamin	Resources	Deficiency disease	Symptoms
1)	Cyanoco - balamine	Synthesised by bacteria present in the intestine.	Pernicious anaemia	Lean and weak, less appetite.
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3)	Retinol	Leafy vegetables, carrot, tomato, pumpkin, papaya, mango, meat, fish, egg, liver, milk, Cod and Shark liver oil	Eye and skin diseases	Night Blindness, Xerophthalmia, Cornea failure, Scaly skin.
4)	Tocoferol	Fruits, vegetables, sprouts, sunflower oil	Fertility disorders	Sterility in males, abortions in females.
5)	Phylloquinone	Green leafy vegetables, meat, egg and milk	Problems related to blood clotting	Delay in blood clotting, over bleeding.

Which vitamin deficiency that causes the gums bleeding

?



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11. Read the table and answer the following questions.

Sl. No.	Vitamin	Resources	Deficiency disease	Symptoms
1)	Cyanoco - balamine	Synthesised by bacteria present in the intestine.	Pernicious anaemia	Lean and weak, less appetite.
2)	Ascorbic acid	Green leafy vegetables, citrus fruits, sprouts	Scurvy	Delay in healing of wounds, fractures of bones.
3)	Retinol	Leafy vegetables, carrot, tomato, pumpkin, papaya, mango, meat, fish, egg, liver, milk, Cod and Shark liver oil	Eye and skin diseases	Night Blindness, Xerophthalmia, Cornea failure, Scaly skin.
4)	Tocoferol	Fruits, vegetables, sprouts, sunflower oil	Fertility disorders	Sterility in males, abortions in females.
5)	Phylloquinone	Green leafy vegetables, meat, egg and milk	Problems related to blood clotting	Delay in blood clotting, over bleeding.

Name the fat soluble vitamins from the above.



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12. Read the table and answer the following questions.

Sl. No.	Vitamin	Resources	Deficiency disease	Symptoms
1)	Cyanoco - balamine	Synthesised by bacteria present in the intestine.	Pernicious anaemia	Lean and weak, less appetite.
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4)	Tocoferol	Fruits, vegetables, sprouts, sunflower oil	Fertility disorders	Sterility in males, abortions in females.
5)	Phylloquinone	Green leafy vegetables, meat, egg and milk	Problems related to blood clotting	Delay in blood clotting, over bleeding.

Name the symptoms that appear due to deficiency of vitamin K.

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13. What will you prove by this experiment?

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14. What apparatus do you use in this experiment ?



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15. What would be the results if the experiment is done in shadow ?



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16. What will you do to obtain result from the experiment?



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17. Analyse the following information and answer the question.

Vitamins	Resources	Deficiency symptoms
Thiamine	Cereals, oil seeds, vegetables, milk, meat, fish, eggs	Vomitings, fits, loss of appetite, difficulty in breathing, paralysis.
Ascorbic acid	Green leafy vegetables, citrus fruits, sprouts, carrot	Delay in healing of wounds, fractures of bones.
Retinol	Leafy vegetables, carrot, tomato, pumpkin, papaya, mango, meat, fish, egg, liver, milk, cod liver oil, Shark liver oil.	Night blindness, xerophthalmia, cornea failure, scaly skin.
Calciferol	Liver, egg, cod liver oil, Shark liver oil	Improper formation of bones, knock-knees, swollen wrists, delayed dentition, weak bones.
Tocoferol	Fruits, vegetables, sprouts, sunflower oil	Sterility in male, abortions in female.
Phylloquinone	Green leafy vegetables, milk, meat, eggs	Delay in blood clotting, over-bleeding.

Which vitamins deficiency causes diseases related to bones ?



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18. Analyse the following information and answer the question.

Vitamins	Resources	Deficiency symptoms
Thiamine	Cereals, oil seeds, vegetables, milk, meat, fish, eggs	Vomitings, fits, loss of appetite, difficulty in breathing, paralysis.
Ascorbic acid	Green leafy vegetables, citrus fruits, sprouts, carrot	Delay in healing of wounds, fractures of bones.
Retinol	Leafy vegetables, carrot, tomato, pumpkin, papaya, mango, meat, fish, egg, liver, milk, cod liver oil, Shark liver oil.	Night blindness, xerophthalmia, cornea failure, scaly skin.
Calciferol	Liver, egg, cod liver oil, Shark liver oil	Improper formation of bones, knock-knees, swollen wrists, delayed dentition, weak bones.
Tocoferol	Fruits, vegetables, sprouts, sunflower oil	Sterility in male, abortions in female.
Phylloquinone	Green leafy vegetables, milk, meat, eggs	Delay in blood clotting, over-bleeding.

Which vitamins we get by eating fruits ?



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19. Analyse the following information and answer the question.

Vitamins	Resources	Deficiency symptoms
Thiamine	Cereals, oil seeds, vegetables, milk, meat, fish, eggs	Vomitings, fits, loss of appetite, difficulty in breathing, paralysis.
Ascorbic acid	Green leafy vegetables, citrus fruits, sprouts, carrot	Delay in healing of wounds, fractures of bones.
Retinol	Leafy vegetables, carrot, tomato, pumpkin, papaya, mango, meat, fish, egg, liver, milk, cod liver oil, Shark liver oil.	Night blindness, xerophthalmia, cornea failure, scaly skin.
Calciferol	Liver, egg, cod liver oil, Shark liver oil	Improper formation of bones, knock-knees, swollen wrists, delayed dentition, weak bones.
Tocoferol	Fruits, vegetables, sprouts, sunflower oil	Sterility in male, abortions in female.
Phylloquinone	Green leafy vegetables, milk, meat, eggs	Delay in blood clotting, over-bleeding.

Which vitamin deficiency causes Paralysis ? To prevent it, what type of food we have to eat?



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20. Analyse the following information and answer the question.

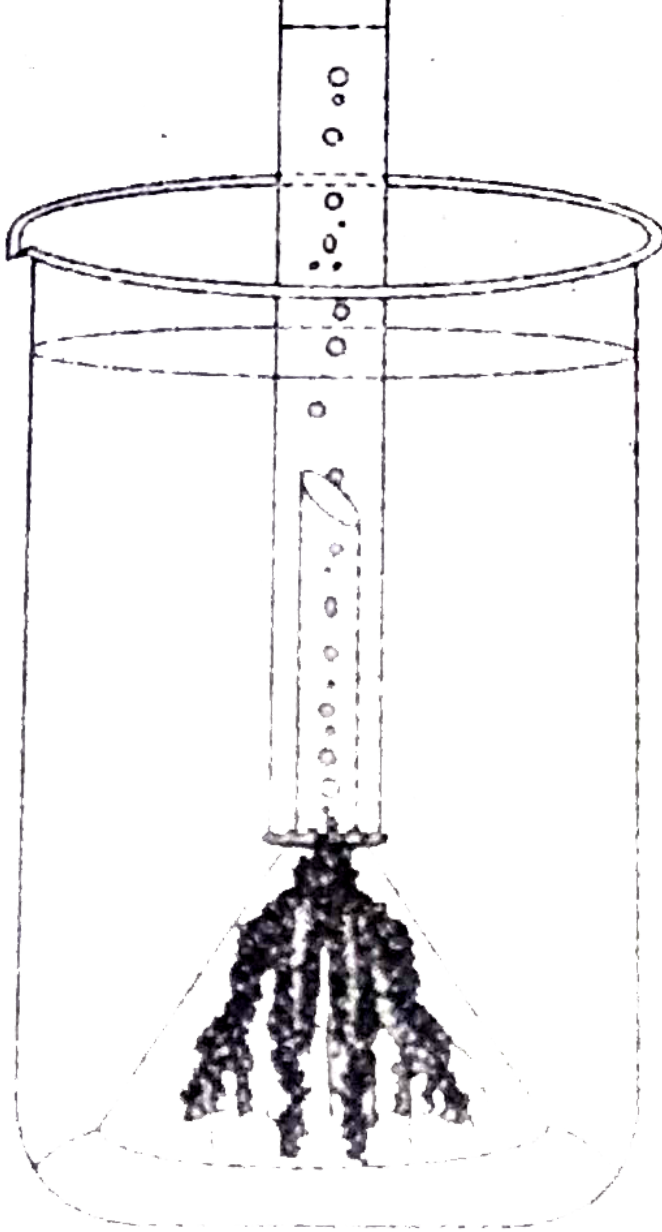
Vitamins	Resources	Deficiency symptoms
Thiamine	Cereals, oil seeds, vegetables, milk, meat, fish, eggs	Vomitings, fits, loss of appetite, difficulty in breathing, paralysis.
Ascorbic acid	Green leafy vegetables, citrus fruits, sprouts, carrot	Delay in healing of wounds, fractures of bones.
Retinol	Leafy vegetables, carrot, tomato, pumpkin, papaya, mango, meat, fish, egg, liver, milk, cod liver oil, Shark liver oil.	Night blindness, xerophthalmia, cornea failure, scaly skin.
Calciferol	Liver, egg, cod liver oil, Shark liver oil	Improper formation of bones, knock-knees, swollen wrists, delayed dentition, weak bones.
Tocoferol	Fruits, vegetables, sprouts, sunflower oil	Sterility in male, abortions in female.
Phylloquinone	Green leafy vegetables, milk, meat, eggs	Delay in blood clotting, over-bleeding.

To avoid vitamin deficiency diseases, what : type of food we have to eat ?

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21. Answer the following questions by observing the diagram showing the experiment.





What will you prove by this experiment ?





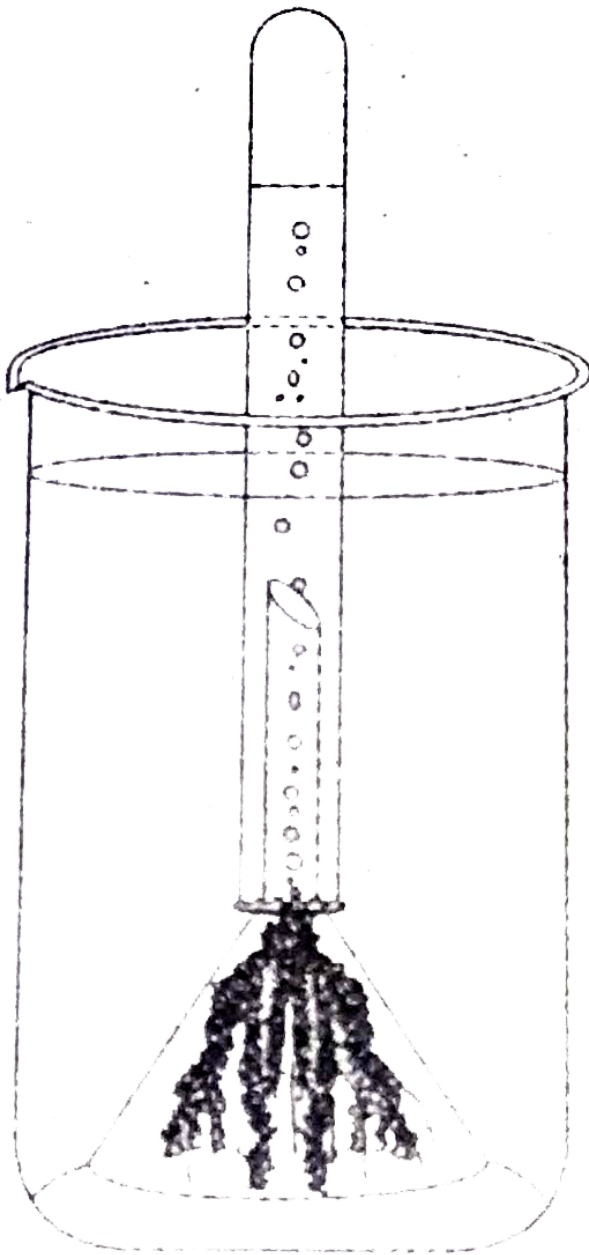
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22. What apparatus do you use in this experiment ?



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23. Answer the following questions by observing the diagram showing the experiment.



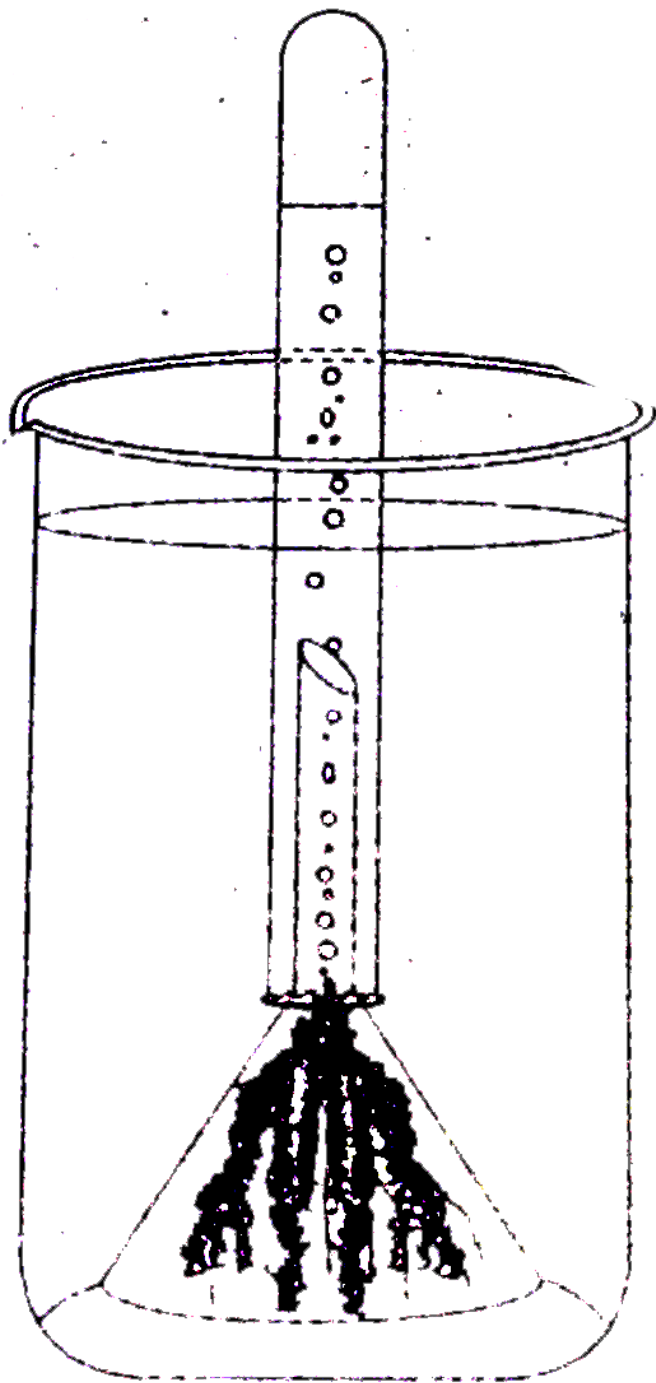
Why do we use KOH solution in this experiment ?





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24. Answer the following questions by observing the diagram showing the experiment.



Why did we study two leaves in this experiment ?



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25. Describe an experiment conducted by Joseph Priestly which revealed the essential role of air in the growth of green plants.



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26. What is the role of air in the growth of green plants ?



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27. Describe an experiment conducted by Joseph Priestly which revealed the essential role of air in the growth of green plants.

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28. B_1 , B_2 , B_3 , A, C, D, E, K are the symbols of vitamins. Classify these vitamins based on solubility and diseases due to vitamins deficiency.

S.No.	Water soluble	Disease due to deficiency	Fat soluble	Disease due to deficiency

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29. During Photosynthesis, several events occurs in the chloroplast. Explain the light dependent reactions.



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30. The products of light reaction of photosynthesis is



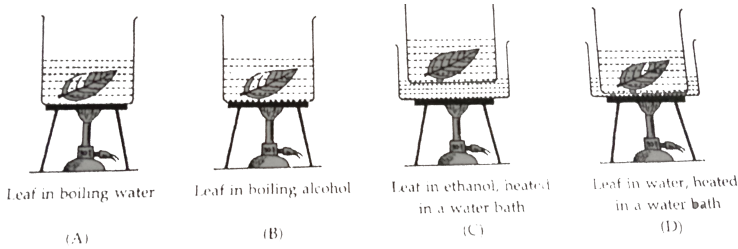
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31. How can you prove that sunlight is essential for photosynthesis?



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32. Out of the following figures, choose the one showing the correct procedure for removing chlorophyll from the leaf in the experiment 'light is necessary for photosynthesis':



The correct procedure is:

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33. What are fat soluble vitamins ? Explain the deficiency diseases due to , deficiency of fat soluble vitamins and their symptoms.

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34. Is the malnutrition reason for diseases ? Why ?

Write any of such diseases and its characters.

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35. Give examples for the vitamin deficiency diseases.

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36. Briefly explain about autotrophic nutrition.

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37. How do green plant get their food ?

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38. A: Order of reaction is evaluated from the mechanism of a reaction

R: Order of reaction can be zero

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39. Write an account on carbon fixation.

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40. For every calvin cycle



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41. Describe the absorption of digested food from the gut into the body fluids.



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42. With the help of a diagram show the movement of food from mouth to the stomach . What muscles and nerves are involved in the movement of food and what is this action called ?





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43. What is the role of acid in stomach ?



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44. Describe the buccal cavity of human beings.



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45. Describe the buccal cavity of human beings.



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46. Draw a flow chart of human digestive system.



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47. Write briefly about nutrition in paramecium.



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48.

What

is the life process going on in Paramecium ?



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49. Parasitic mode of nutrition is



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50. Write about the digestion of food in the small intestine.



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51. In small intestine how the carbohydrates, proteins and fats are digested ? Name different enzymes which help in digestion in small intestine.



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52. Write a brief note on heterotrophic nutrition.



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53. How do non-green plants and animals get their food ?



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54. The first event in photosynthesis is



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55. The acid formed when CO_2 is dissolved in water-



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56. Briefly describe the digestion of food materials in alimentary canal with the help of a diagram.



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57. What happens to the food once it enters our body ?



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58. Differentiate between the nutrition process of plants and animals.



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59. List out the organs/systems involved in the process of digestion and explain briefly their function.



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60. If you have chance to meet any doctor (physician) or nutritionist, what questions will you ask about the health of alimentary canal (digestive system) ?





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61. I found that water was essential for the increase of plant mass. Name that scientist.



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62. Write a note on Von Helmont's experiment focusing on how he concluded that water was important for growth in plant body mass?



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63. Roots not only absorb fluid from soil, but returns a portion of their peculiar secretions back into it. Who proved it from his experiments?

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64. Give an account of water soluble vitamins, their occurrence, deficiency diseases and symptoms.

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65. Give an account of water soluble vitamins, their occurrence, deficiency diseases and symptoms.



66. Observe the information and answer the following questions.

Some enzymes and juices of gut

S No	Enzyme	Substance	Secreted by	Secreted into	Digestive juice	Acts on	Products
1	Ptyalin (salivary amylase)		Salivary glands	Buccal cavity	Saliva	Carbohydrates	Maltose
2	Pepsin		Stomach	Stomach	Gastric juice	Proteins	Peptones
3	Bile (No enzymes)		Liver	Duodenum	Bile juice	Fats	Emulsification of large lats into small globules
4	Amylase		Pancreas	Duodenum	Pancreatic juice	Carbohydrates	Maltose
5	Trypsin		Pancreas	Duodenum	Pancreatic juice	Proteins	Peptones
6	Lipase		Pancreas	Duodenum	Pancreatic juice	Fats	Fatty acids and glycerol

What are the enzymes that are helpful to digest proteins ?

67. Observe the information and answer the following questions.

Some enzymes and juices of gut

S No	Enzyme	Substance	Secreted by	Secreted into	Digestive juice	Acts on	Products
1	Ptyalin (salivary amylase)		Salivary glands	Buccal cavity	Saliva	Carbohydrates	Maltose
2	Pepsin		Stomach	Stomach	Gastric juice	Proteins	Peptones
3	Bile (No enzymes)		Liver	Duodenum	Bile juice	Fats	Emulsification breaking down of large fats into small globules
4	Amylase		Pancreas	Duodenum	Pancreatic juice	Carbohydrates	Maltose
5	Trypsin		Pancreas	Duodenum	Pancreatic juice	Proteins	Peptones
6	Lipase		Pancreas	Duodenum	Pancreatic juice	Fats	Fatty acids and glycerol

What are the enzymes that are helpful to digest proteins ?



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68. Observe the information and answer the following questions.

Some enzymes and juices of gut

S No	Enzyme	Substance	Secreted by	Secreted into	Digestive juice	Acts on	Products
1	Ptyalin (salivary amylase)		Salivary glands	Buccal cavity	Saliva	Carbohydrates	Maltose
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3	Bile (No enzymes)		Liver	Duodenum	Bile juice	Fats	Emulsification breaking down of large fats into small globules
4	Amylase		Pancreas	Duodenum	Pancreatic juice	Carbohydrates	Maltose
5	Trypsin		Pancreas	Duodenum	Pancreatic juice	Proteins	Peptones
6	Lipase		Pancreas	Duodenum	Pancreatic juice	Fats	Fatty acids and glycerol

At which place liver and pancreas secretes their digestive juices ?



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69. Observe the information and answer the following questions.

Some enzymes and juices of gut

S No	Enzyme	Substance	Secreted by	Secreted into	Digestive juice	Acts on	Products
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5	Trypsin		Pancreas	Duodenum	Pancreatic juice	Proteins	Peptones
6	Lipase		Pancreas	Duodenum	Pancreatic juice	Fats	Fatty acids and glycerol

Why carbohydrates are not digested in the stomach ?



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70. Observe the information and answer the following questions.

Some enzymes and juices of gut

S No	Enzyme	Substance	Secreted by	Secreted into	Digestive juice	Acts on	Products
1	Ptyalin (salivary amylase)		Salivary glands	Buccal cavity	Saliva	Carbohydrates	Maltose
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6	Lipase		Pancreas	Duodenum	Pancreatic juice	Fats	Fatty acids and glycerol

Where does carbohydrates & fats digestion starts in our Alimentary canal ?



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71. Write the experimental procedure to prove that oxygen is produced during photo-synthesis in the presence of light.



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72. Draw a neat labelled diagram of T.S. of leaf. What is the function of stomata ?



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73. Deekshith conducted an experiment to find the presence of starch in leaves. Draw a diagram for this experiment.



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74. Which issues do you take into consideration to tell that plants play a key role in animals nutrition?



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75. We know that by taking different types of food materials we will get vitamins. For this what changes shall we take in our food habits?



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76. Describe what disaster occurs on earth, if photosynthesis life process stops.





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77. What are vitamins ? Why they are called essential nutrients ? What is their role in the human body ?



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