



## BIOLOGY

### BOOKS - VGS BRILLIANT BIOLOGY (TELUGU ENGLISH)

## NUTRITION

#### 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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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 heterotrophic 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.



**Watch Video Solution**

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.



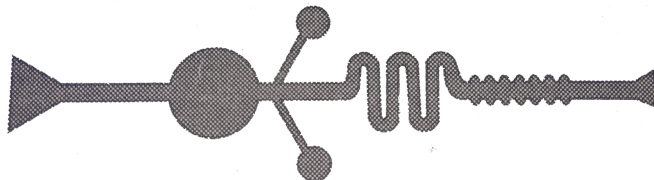
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4. Draw the labelled diagram of human digestive system. List out the parts where peristalsis takes place.



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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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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 ?



**Watch Video Solution**



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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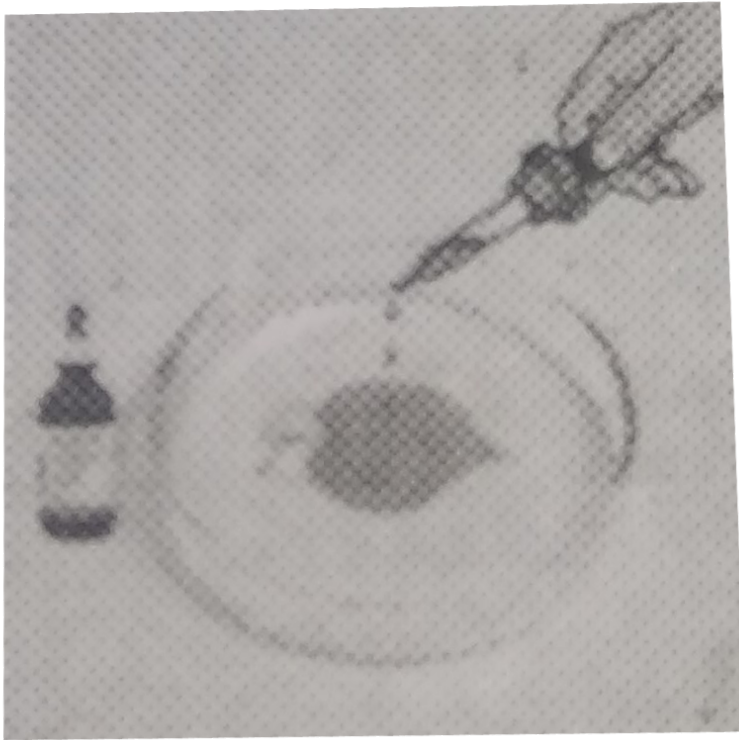
## Questions Given In The Lesson 4 Marks Question

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



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## Creative Questions For New Model Paper 1 2 Mark Questions



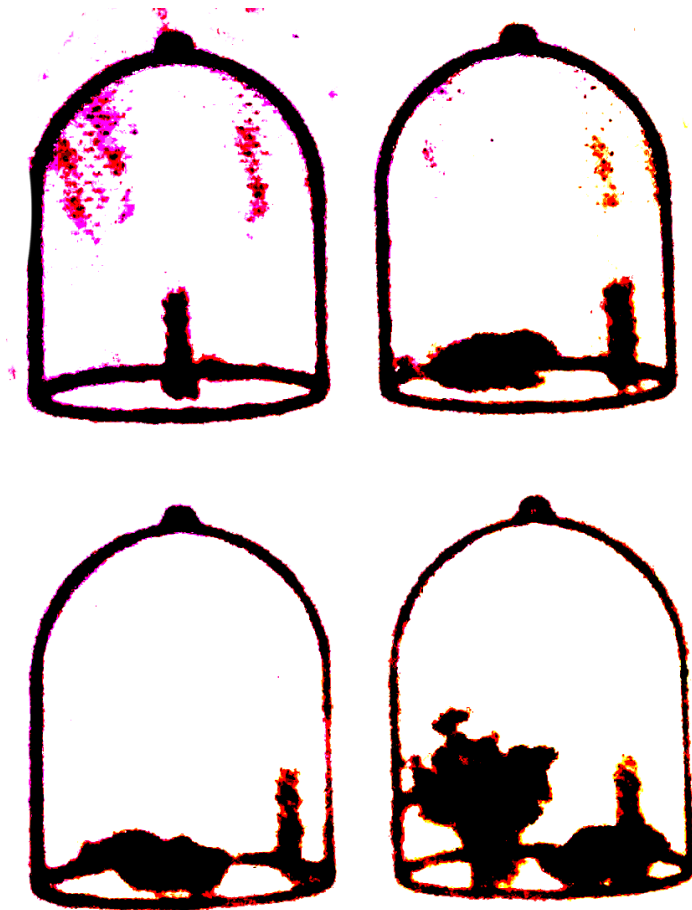
1.

Can you

name the test shown in the figure ?



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2. scientist who conducted the given experiment.

Name the



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3. \_\_\_\_\_

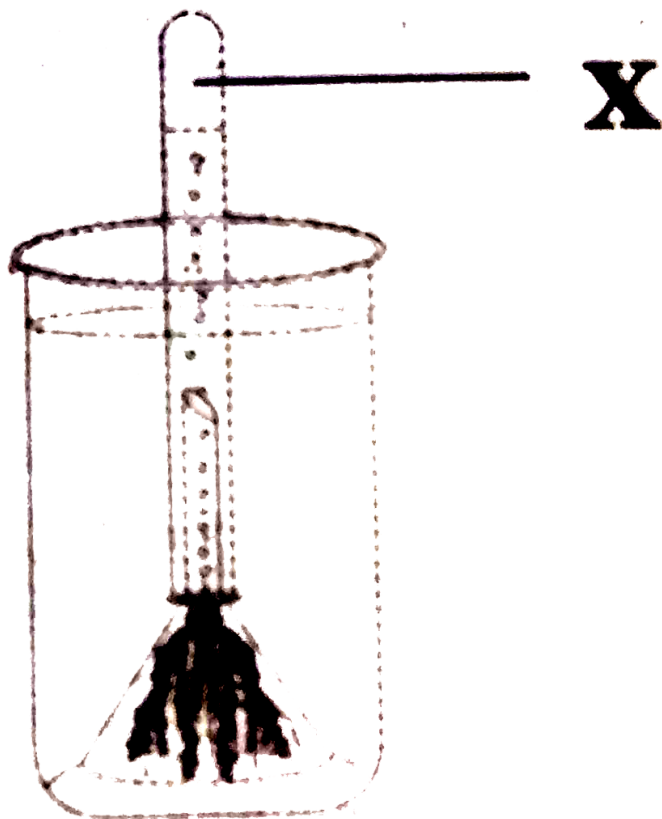
Name the

labelled part 'x' in the above picture.



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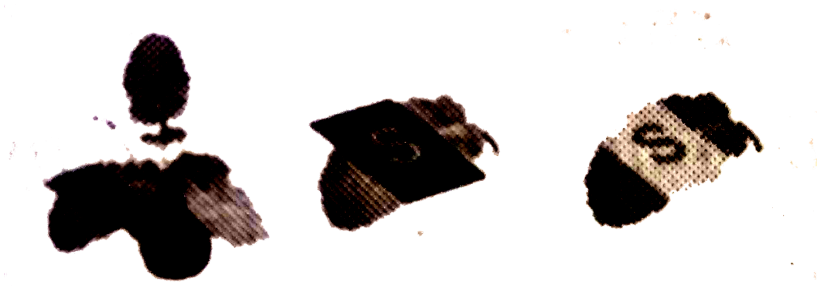


4.

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



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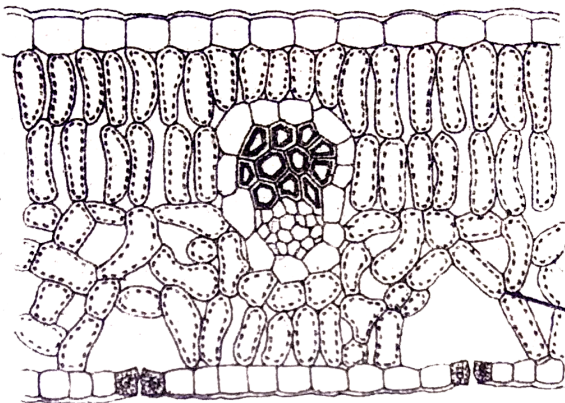
5.

What do

you prove from this experiment ?



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**X**

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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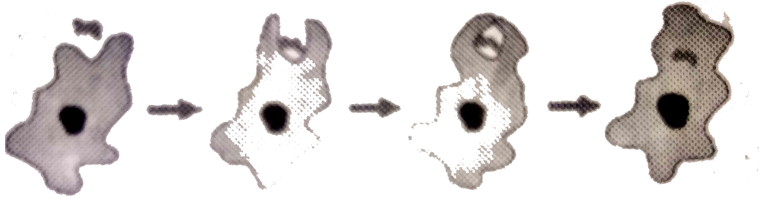
8.

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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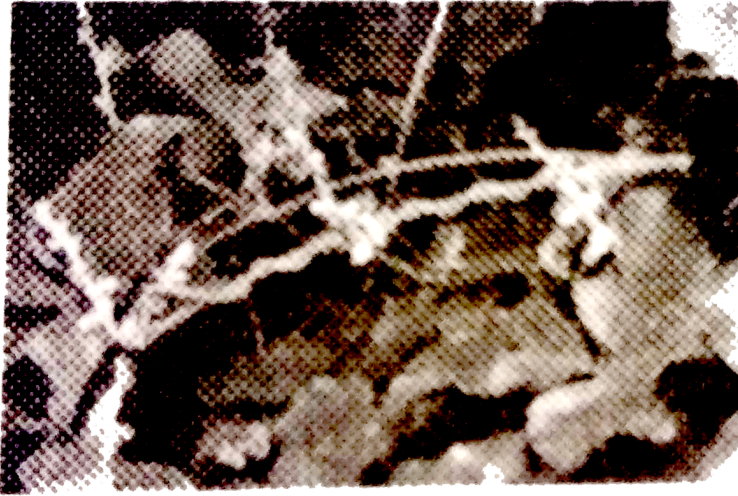
10.

What is

the life process going on in Paramecium ?



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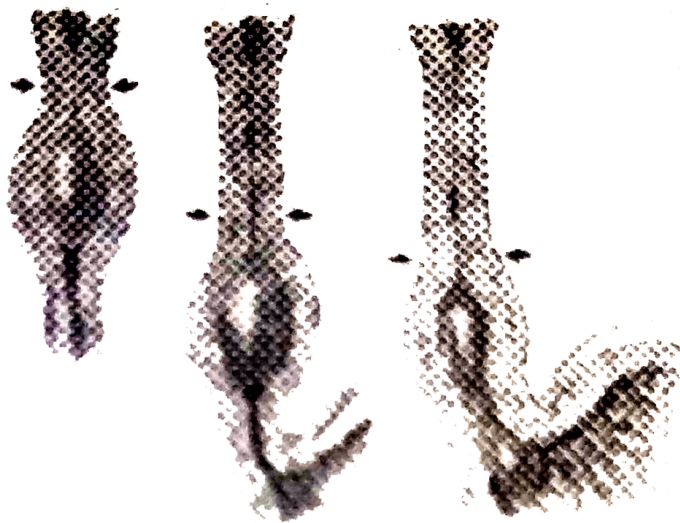
11.

The above

shown plant is an example for



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12.

What does

the given figure represent?



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13.

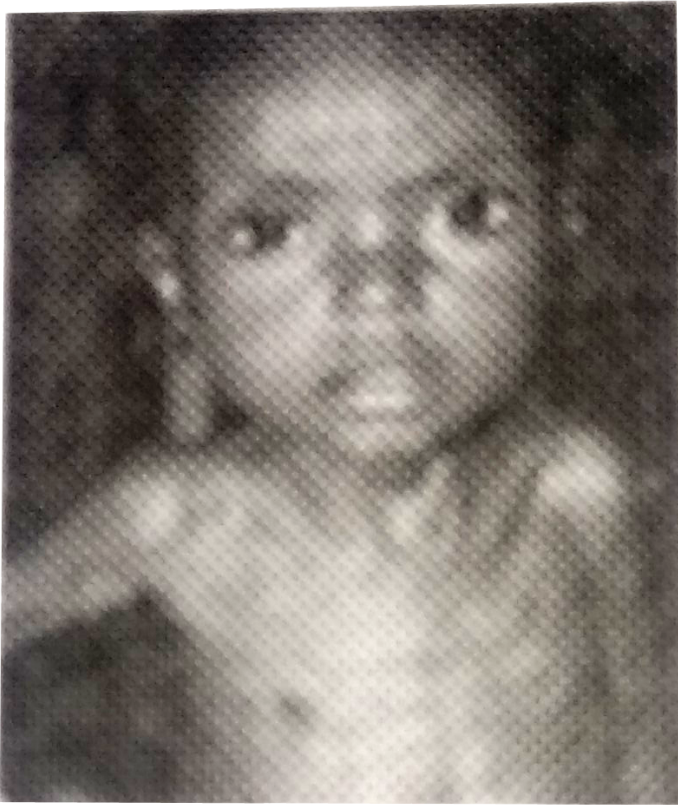
Two boys

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.

 [Watch Video Solution](#)

**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.

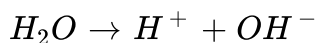
In 1954, he able to break the cell so gently that whole chloroplasts could be obtained and observed the photosynthesis stages.



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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



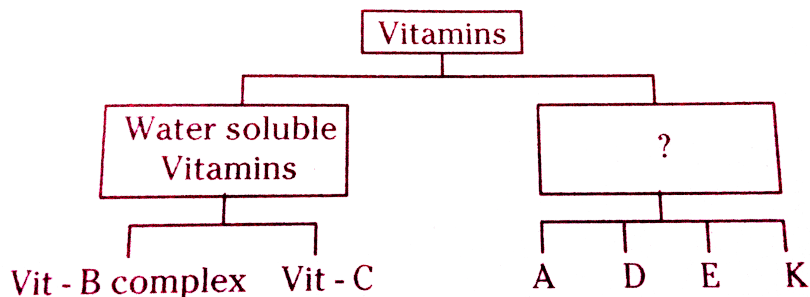
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28. Expand R.U.B.P.



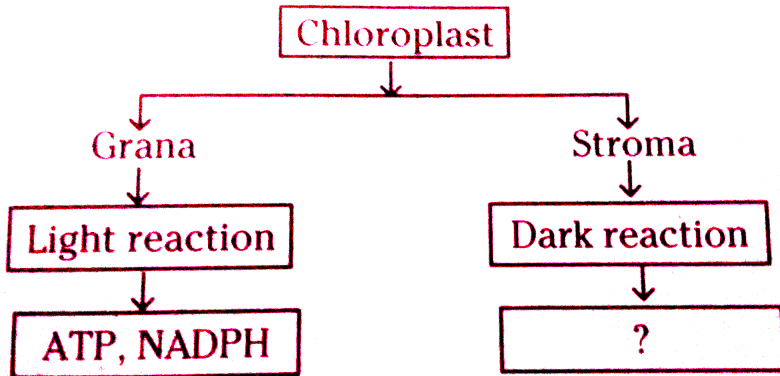
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29. Observe the following classification and complete the blank.



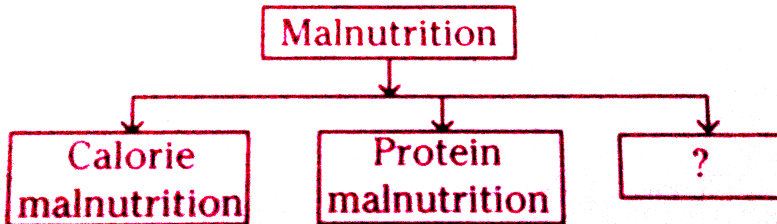
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30. Observe the classification and complete the blank.



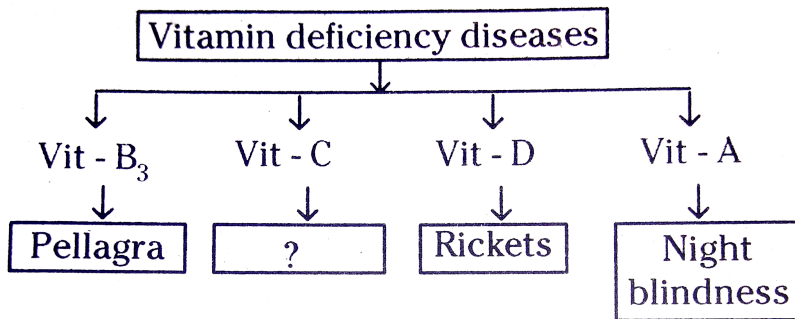
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31.



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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. Kwashiorkor, 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 parsitic 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 folloiw n placards are prepared by your friends. IN which occasion do you use them ?

Take roughages -  
Prevent Constipation

Having simple and  
balanced diet

Drink plenty of  
water everyday



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60. Identify the mismatched pair.

- 1) Folic Acid - Anaemia
- 2) Cyancobalamine - 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. Kwashiorkor : Protein deficiency , Marasmus : ?**



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**64. Lipase : Fats , Trypsin : ?**



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**65. Light reaction : 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 : ?

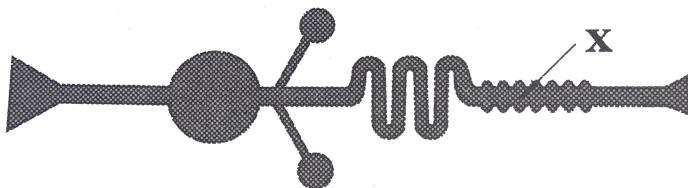
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71. Observe the statements and identify the correct statement.

- 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 gas evolved?



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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.



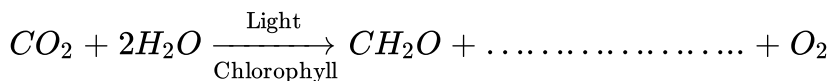
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**80.** Who conducted the famous bell - jar experiment using mint plant, rat and candle?



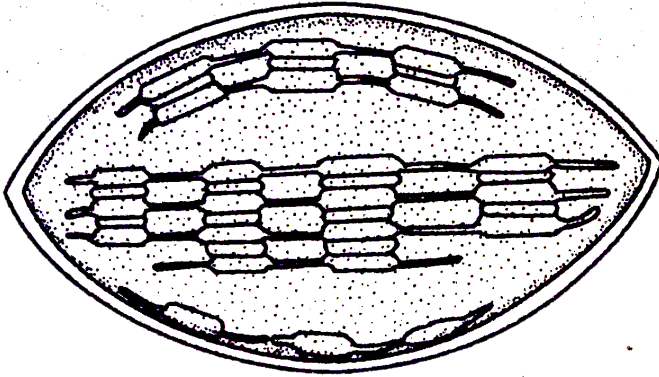
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**81.** Find the missing product in the equation.



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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

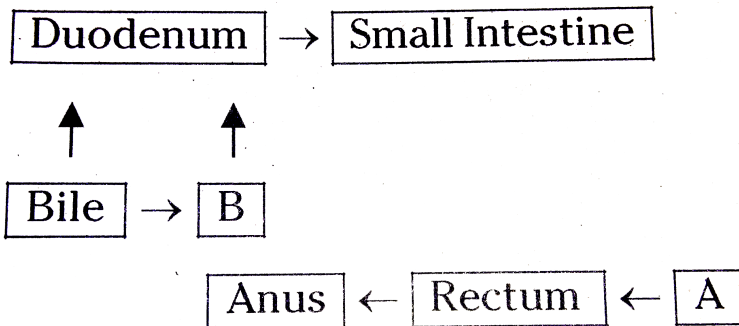
Ascorbic acid - Scurvy

Niacin - Pellagra



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



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**91.** A person suffering from improper formation of bones, knockness, swollen wrists and delayed dentition. What might be the reason ?



**Watch Video Solution**

**92.** Find out wrong pair .

Saliva - Ptyaline

Pancreatic juice - Amylase

Gastric juice - Lipase

Intestinal juice - Peptidose



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

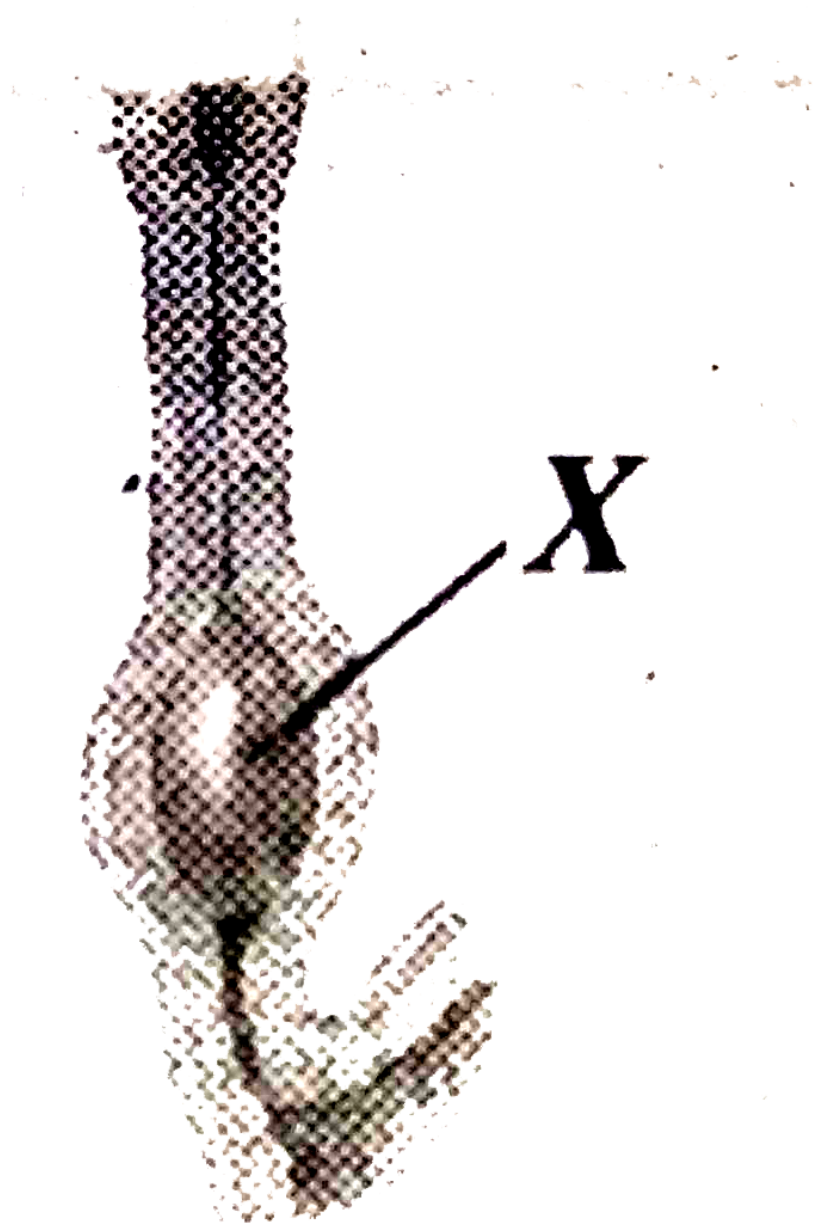
**96.** Find out who am I.

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.



**Watch Video Solution**

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



[Watch Video Solution](#)

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



[Watch Video Solution](#)

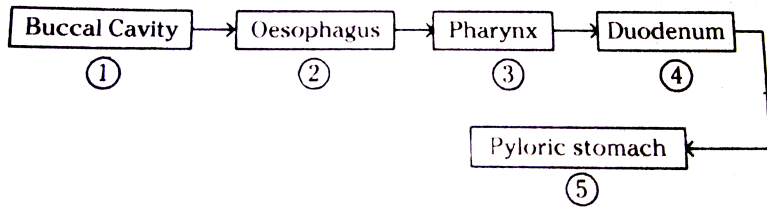
**100.** Green plants : roots , Cuscuta : ?



[Watch Video Solution](#)

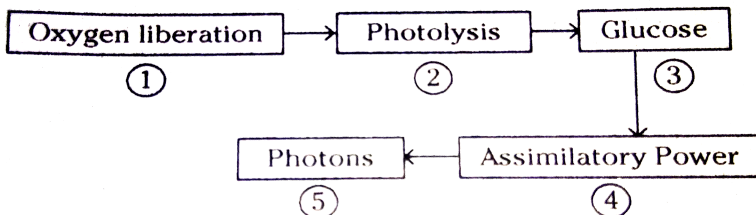


101. Arrange the now chart in the correct order ?



[▶ Watch Video Solution](#)

102. Arrange the now chart in the correct order ?



[▶ Watch Video Solution](#)

103. Find out the missing thing from the table.

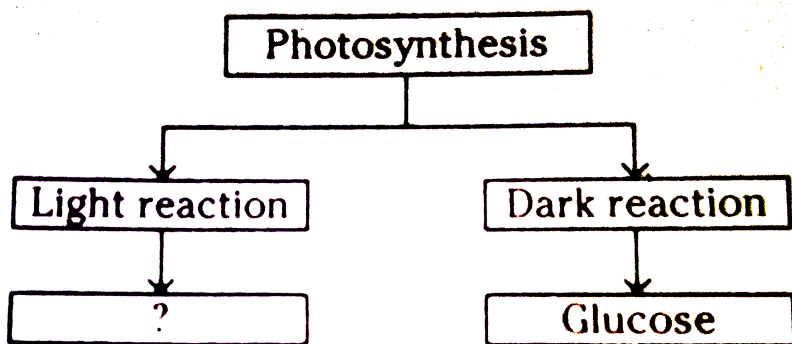
AP - GCSE New Model Paper - 2019

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



Watch Video Solution

104. Complete this flow chart.

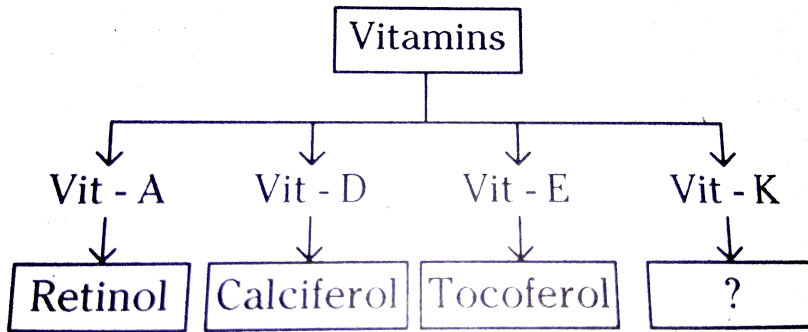


ATP, NADPH



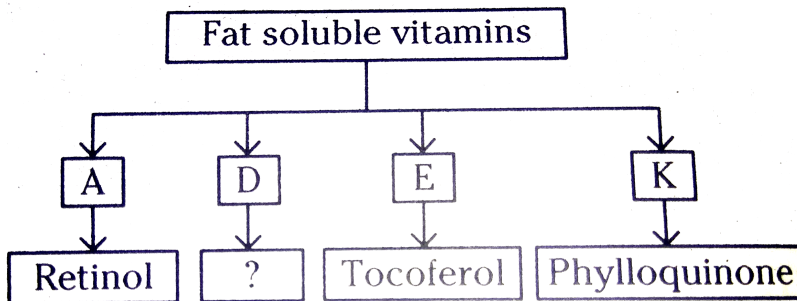
Watch Video Solution

105. Fill this now chart .....



 [Watch Video Solution](#)

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	?



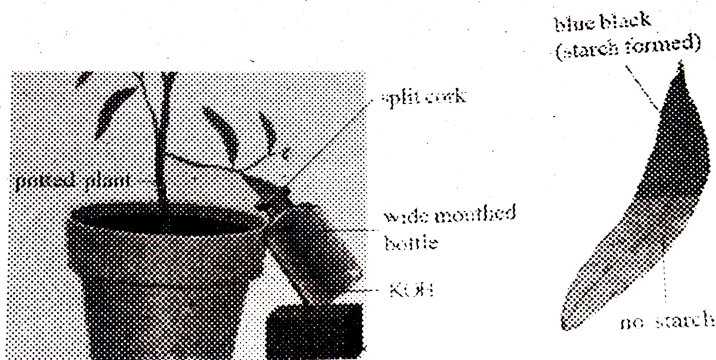
**Watch Video Solution**

109. Complete this table.

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



Watch Video Solution

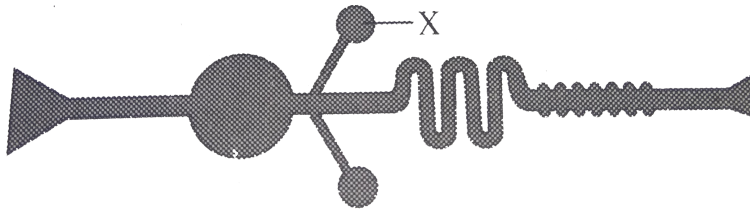


110.

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



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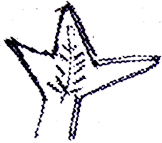


111.

In the above model of digestive system X denotes .....



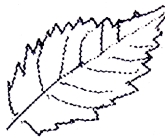
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1



2



3



4

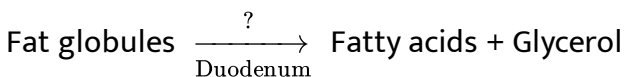
112.

Which is the correct leaf for the experiment 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.



**Watch Video Solution**

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. Deficiency 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 the 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. Its 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 locomotary 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 ?



**Watch Video Solution**

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.



[Watch Video Solution](#)



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



**Watch Video Solution**

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](#)

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**

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



[Watch Video Solution](#)

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

Fats + Bile  $\rightarrow$  Fat globules

a) What is the name of that reaction ?

b) Which gland plays major role in this reaction ?



[Watch Video Solution](#)

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 ?



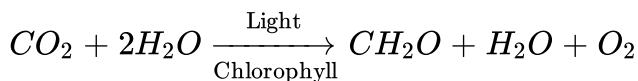
**Watch Video Solution**

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 ?



**Watch Video Solution**

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



**Watch Video Solution**

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



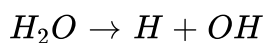
**Watch Video Solution**

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 in light reaction?



**Watch Video Solution**

**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?



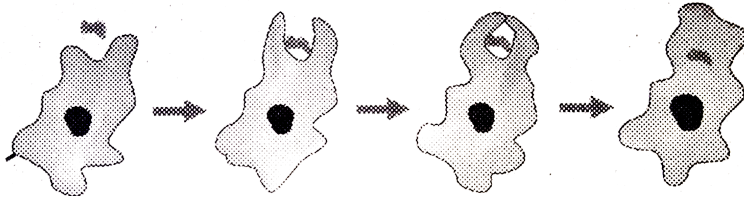
**Watch Video Solution**

21. Why the photosynthesis is important to world ?



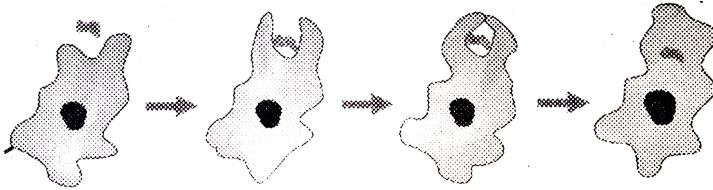
**Watch Video Solution**

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**

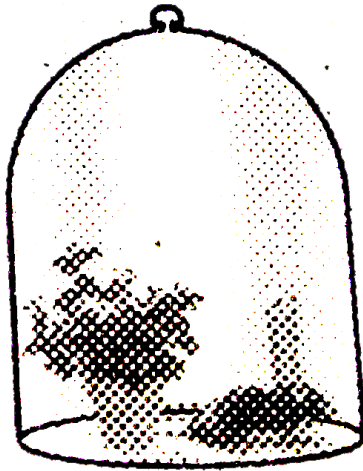
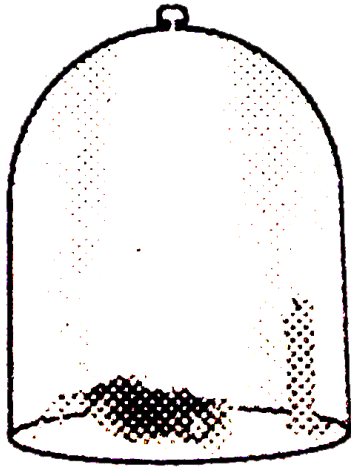
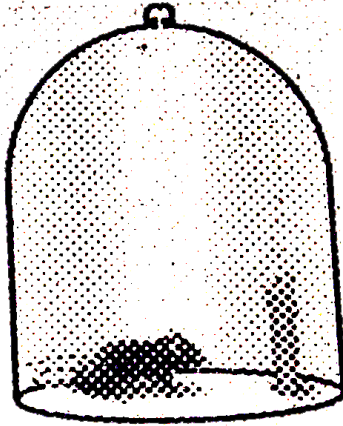
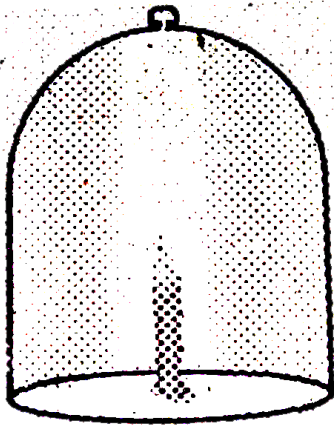
**27.** Plants are main source of food. Justify.



**Watch Video Solution**

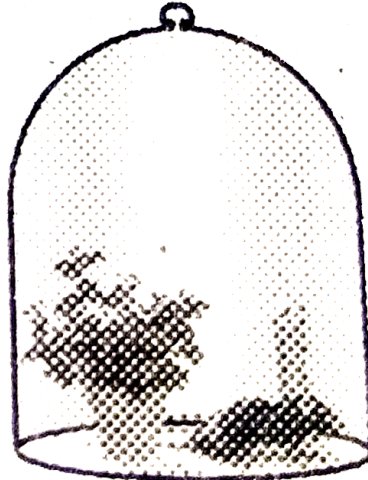
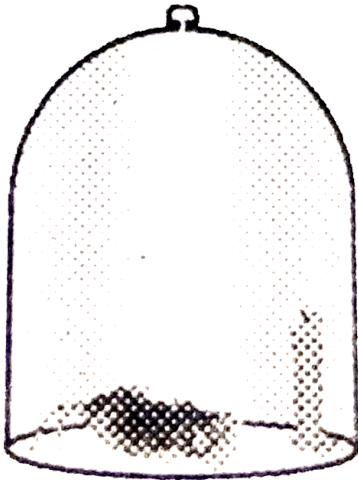
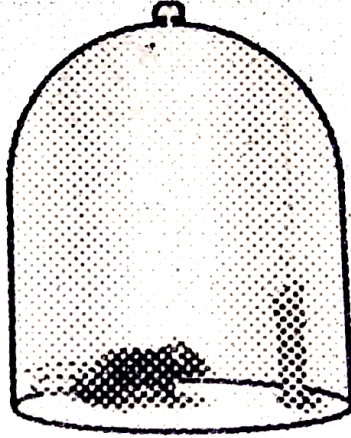
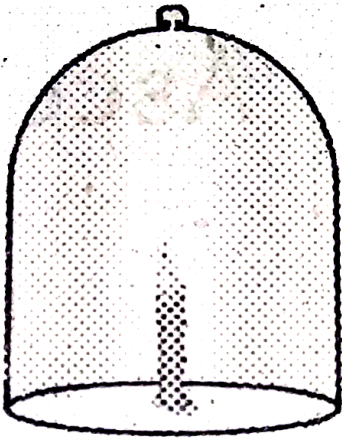
**Creative Questions For New Model Paper 4 Mark Questions**

1. Why did the candle extinguish ?



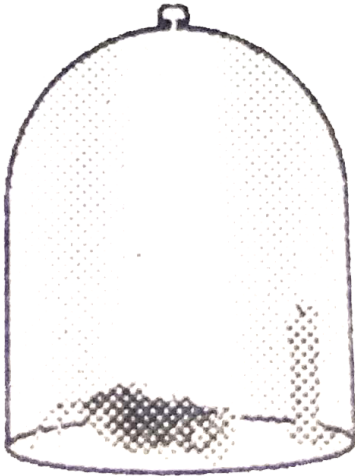
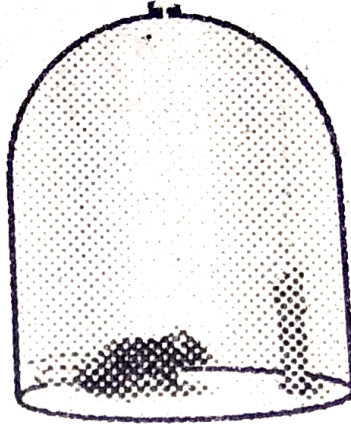
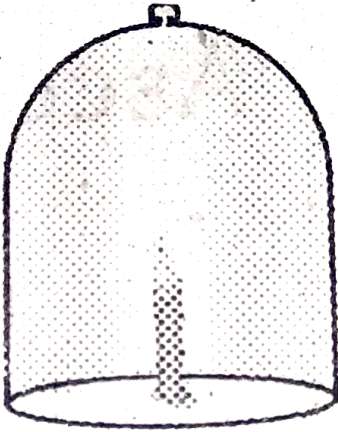
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2. In this experiment, do you find any relationship between mint plant and rat ? Discuss.



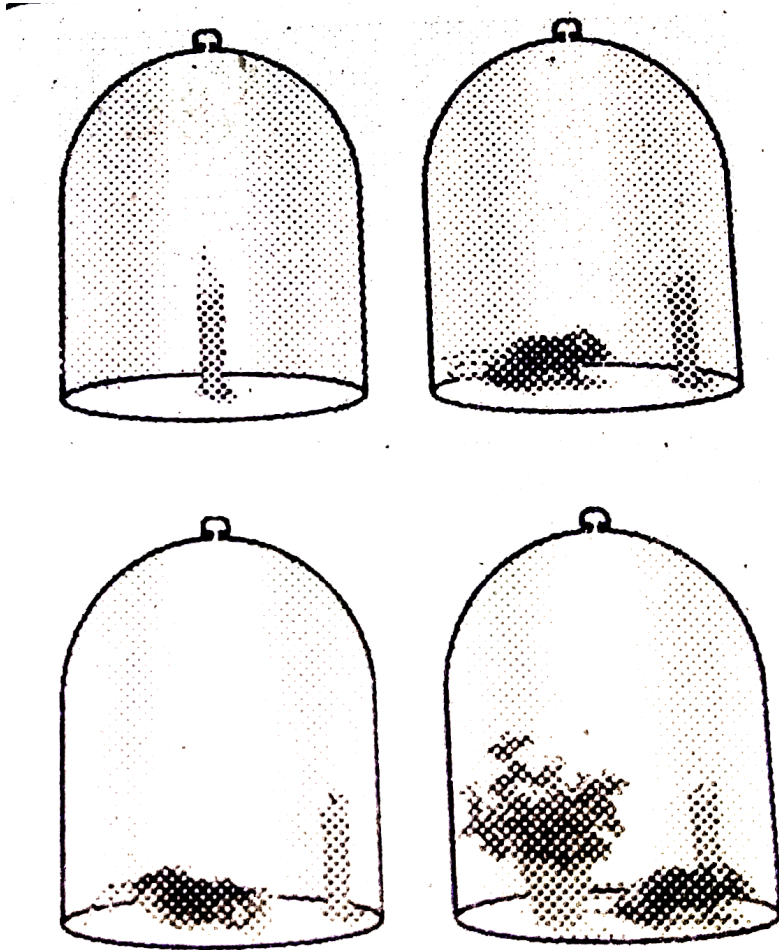
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3. What were Priestly's observations in this experiment ?



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



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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 ?



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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.



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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)	Tocopherol	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.
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)	Tocopherol	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.
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 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.
Tocopherol	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.
Tocopherol	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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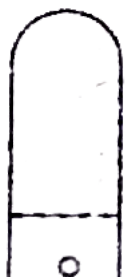
20. Aamalyse the following information and answer the question.

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.
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Calciferol	Liver, egg, cod liver oil, Shark liver oil	Improper formation of bones, knock-knees, swollen wrists, delayed dentition, weak bones.
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Phylloquinone	Green leafy vegetables, milk, meat, eggs	Delay in blood clotting, over-bleeding.

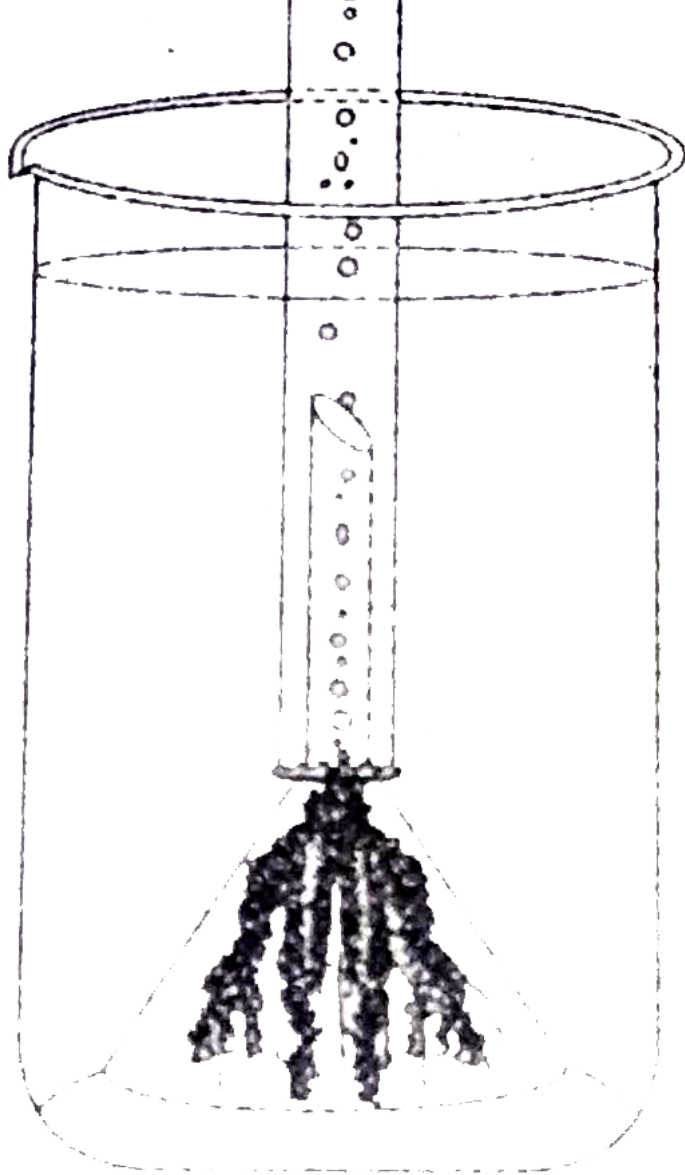
To avoid vitamin deficiency diseases, what : type of food we have to eat ?

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







What will you prove by this experiment ?



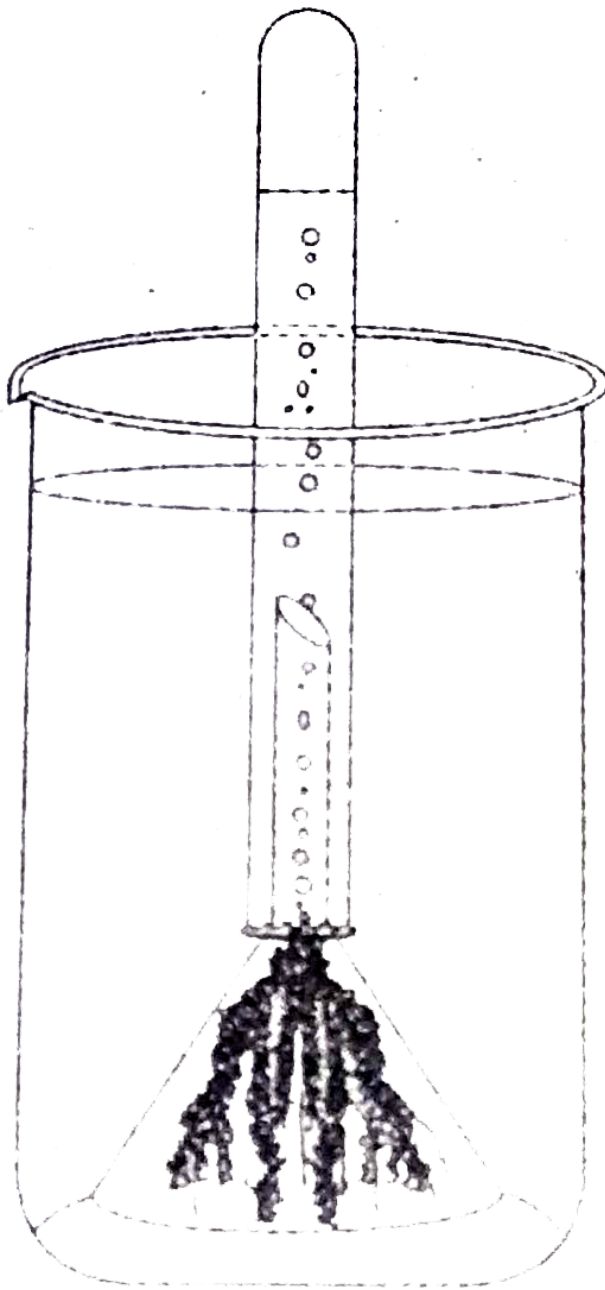
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**22.** What apparatus do you use in this experiment ?



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



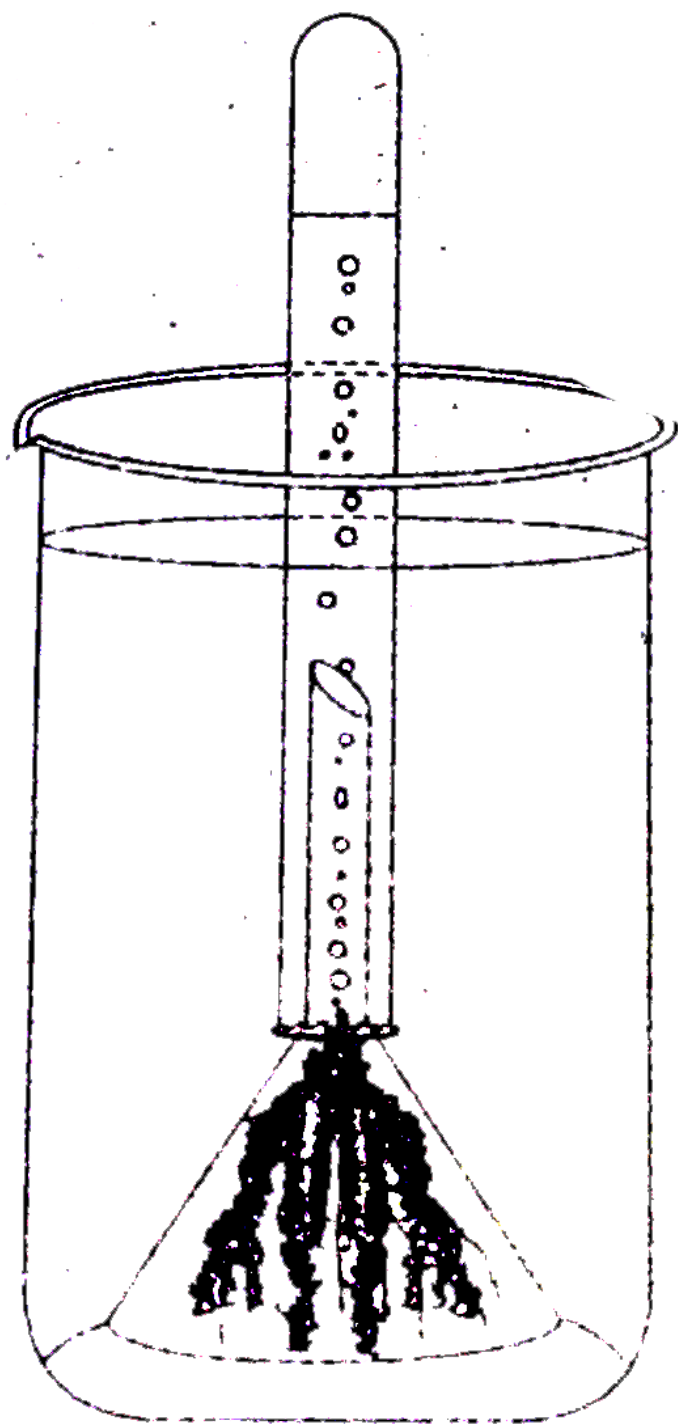
Why do we use KOH solution in this experiment ?



watch video



**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.



**Watch Video Solution**

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



**Watch Video Solution**

**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':



Leaf in boiling water

(A)



Leaf in boiling alcohol

(B)



Leaf in ethanol, heated  
in a water bath

(C)



Leaf in water, heated  
in a water bath

(D)

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.



**Watch Video Solution**

**36.** Briefly explain about autotrophic nutrition.



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**37.** How do green plant get their food ?



**Watch Video Solution**

**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.



**Watch Video Solution**

**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 ?



**Watch Video Solution**

**43.** What is the role of acid in stomach ?



**Watch Video Solution**

**44.** Describe the buccal cavity of human beings.



**Watch Video Solution**

**45.** Describe the buccal cavity of human beings.



**Watch Video Solution**

**46.** Draw a flow chart of human digestive system.



**Watch Video Solution**

**47.** Write briefly about nutrition in paramoecium.



**Watch Video Solution**



48.

What is

the life process going on in Paramecium ?



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**49.** Parasitic mode of nutrition is



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

**52.** Write a brief note on heterotrophic nutrition.



**Watch Video Solution**

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 ?



**Watch Video Solution**

**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.



**Watch Video Solution**

**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 percellular 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.



Watch Video Solution

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



Watch Video Solution

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 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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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 secrete 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
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

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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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

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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1. Write differences between

Autotrophic nutrition - Heterotrophic nutrition :



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2. Write differences between

Ingestion - Digestion :



**Watch Video Solution**

3. Write differences between

Light reaction - Dark reaction:



**Watch Video Solution**

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.

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



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7. Give reasons.

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



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**8. Give reasons.**

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



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**9. Give reasons.**

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



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**10. Give examples.**

Digestive enzymes



[Watch Video Solution](#)

11. Give examples.

Organisms having heterotrophic nutrition



**Watch Video Solution**

12. Give examples.

Vitamins



**Watch Video Solution**

13. Give examples.

Nutritional deficiency diseases



**Watch Video Solution**

14. Explain the role of stomata in photosynthesis.



**Watch Video Solution**

15. Name the three end products of photosynthesis.



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



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



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18. What is the role of acid in stomach ?



[Watch Video Solution](#)

19. Salvia helps in the digestion of



**Watch Video Solution**

20. Which part of small intestine absorbs digested food ?



**Watch Video Solution**

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



**Watch Video Solution**

22. How are fats digested in our bodies? Where does this process take place?



**Watch Video Solution**

**23.** What is emulsification ?



**Watch Video Solution**

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



**Watch Video Solution**

**25.** Name the partially digested food in stomach.



**Watch Video Solution**

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



**Watch Video Solution**

**27.** What is the role of roughages in the alimentary tract?



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**28.** What is malnutrition ?



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



[Watch Video Solution](#)

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



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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

**35.** 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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**36.** 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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**37.** 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 ?



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

**42.** 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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**43.** 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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**44.** Explain the structure of chloroplast with a neat labelled sketch.



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



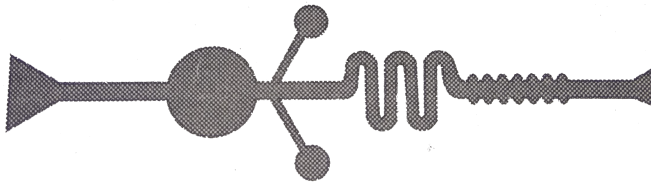
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**46.** Draw the labelled diagram of human digestive system. List out the parts where peristalsis takes place.



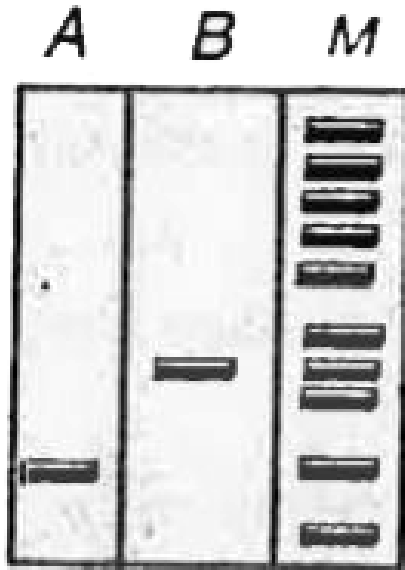
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**47.** Raheem prepared a model showing the passage of the food through different parts of the alimentary canal. Observe this and label its parts.



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48. Observe the following diagram and identify the correct option



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49. What facts about the green plants do you appreciate ?



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



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51. 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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52. The food synthesized by the plant is stored as .....



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53. Fill in the blanks

.....are the sites of photosynthesis.



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54. Name the enzymes present in pancreatic juice.



[Watch Video Solution](#)

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



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56. Fill in the blanks

The gastric juice contains .....acid



[Watch Video Solution](#)

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



[Watch Video Solution](#)

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

- A. Yeast
- B. Mushrooms
- C. Cuscuta
- D. Leeches

**Answer:**



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**59.** The rate of photosynthesis is not affected by

- A. Light intensity
- B. Humidity
- C. Temperature
- D. Carbon dioxide concentration



**Answer:**



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**60.** 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 water from leaves
- C. Ensure that no photosynthesis occurred
- D. Ensure that leaves are free from the starch

**Answer:**



**Watch Video Solution**

**61.** The digestive juice without enzyme is

- A. Bile
- B. Gastric juice
- C. Pancreatic juice
- D. Saliva

**Answer:**



**Watch Video Solution**

**62.** In single celled animals, the food is taken by

- A. Body surface
- B. Mouth
- C. Teeth
- D. Vacuoles

**Answer:**



**Watch Video Solution**

**63.** 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:**



**Watch Video Solution**

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



**Watch Video Solution**

**65.** The materials required for photosynthesis are



**Watch Video Solution**

**66.** Reserve food is starch in



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

 Watch Video Solution

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



Watch Video Solution

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



Watch Video Solution

72. Explain the different digestive enzymes and their functions with the help of a table



Watch Video Solution

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



Watch Video Solution

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



**Watch Video Solution**

75. How do you prove that starch is prepared in leaves during photosynthesis?



**Watch Video Solution**

76. What is the end product of photosynthesis?



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

**82.** What about plants having coloured leaves ?



**Watch Video Solution**

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



**Watch Video Solution**

**84.** Do you think the new reddish leaves of plants also carry out photosynthesis ? What could be the role of their colour ?



**Watch Video Solution**

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



**Watch Video Solution**



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



**Watch Video Solution**

**87.** Name the enzymes which act on carbohydrates.



**Watch Video Solution**

**88.** Which juice contains no enzymes ?



**Watch Video Solution**

**89.** What are the end products of fats in digestion?



**Watch Video Solution**

**90.** What are the enzymes that act on proteins ?



**Watch Video Solution**

**91.** What do you think about the process of digestion?



**Watch Video Solution**

**92.** What are the major steps of digestion ?



**Watch Video Solution**

**93.** How did Priestly light the candle from outside ?



**Watch Video Solution**

**94.** Do you find any relationship between candle, rat, and mint plant ? Discuss.



[Watch Video Solution](#)

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



[Watch Video Solution](#)

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



[Watch Video Solution](#)

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



[Watch Video Solution](#)

**98.** Do you think the new reddish leaves of plants also carry out photosynthesis ? What could be the role of their colour ?



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

**101.** Which light range is least effective in Photosynthesis ?



**Watch Video Solution**

**102.** Name the fat soluble vitamins.



**Watch Video Solution**

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



**Watch Video Solution**

**104.** Do you think the new reddish leaves of plants also carry out photosynthesis ? What could be the role of their colour ?



**Watch Video Solution**

**105.** Collect information about pellagra and discuss with your teacher.



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

**110.** Which juice contains no enzymes ?



**Watch Video Solution**

**111.** 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**

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



**Watch Video Solution**

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



**Watch Video Solution**

**114.** Write two slogans for campaign on Mal-nutrition.



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**



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



**Watch Video Solution**

**119.** What is autotrophic nutrition ?



**Watch Video Solution**

**120.** What is nutrition? Define it.



**Watch Video Solution**

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



**Watch Video Solution**

**122.** What are the essential factors required for photosynthesis ?



**Watch Video Solution**

**123.** Define photosynthesis.



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

**126.** Choose the correct answer and write its letter in the brackets:

The carbohydrate stored in plants is



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

**133.** The space limited by the inner membrane of the chloroplast is called



**Watch Video Solution**

**134.** What is grana ?



**Watch Video Solution**

**135.** What is stroma ?



**Watch Video Solution**

**136.** What is the function of stroma ?



**Watch Video Solution**

**137.** What are the two major phases found in photosynthesis ?



**Watch Video Solution**

**138.** Why the light reaction . phase is called photochemical phase ?



[Watch Video Solution](#)

**139.** Where does the light reaction takes place ?



[Watch Video Solution](#)

**140.** What are the end products of light reaction ?



[Watch Video Solution](#)

**141.** How ,is glucose produced during dark reaction ?



[Watch Video Solution](#)

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



[Watch Video Solution](#)

**143.** What is photolysis of water ?



**Watch Video Solution**

**144.** Match the following

List - I

1) Epidermis

2) Cuticle

3) Stomatal apparatus

4) Guard cells

List - II

I) Bean shaped cells

II) Stomatal aperture, guard cells and subsidiary cells

III) Thick waxy layer

IV) Outermost layer



**Watch Video Solution**

**145.** How does  $CO_2$  enter into leaf?



**Watch Video Solution**

**146.** Why are ATP and NADPH required in photosynthesis ?



[Watch Video Solution](#)

147. Why are chloroplasts green in colour ?



[Watch Video Solution](#)

148. What are the examples for parasitic organisms?



[Watch Video Solution](#)

149. What is ingestion ?



[Watch Video Solution](#)

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



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**151.** What is the role of amylase jnidigestion of food ?



**Watch Video Solution**

**152.** What is digestion ?



**Watch Video Solution**

**153.** How does the food from oesophagus move into the stomach ?



**Watch Video Solution**

**154.** What is chyme ?



**Watch Video Solution**

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



**Watch Video Solution**

**156.** The gastric juice secreted by the walls of stomach contains .....



**Watch Video Solution**

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



**Watch Video Solution**

**158.** What is emulsification ?



**Watch Video Solution**

**159.** What are the enzymes that act on proteins ?



**Watch Video Solution**

**160.** What is absorption ?



**Watch Video Solution**

**161.** What is defecation ?



**Watch Video Solution**

**162.** What are roughages in the food ?



**Watch Video Solution**

**163.** What are the parts of human digestive system ?



[Watch Video Solution](#)

**164.** What is balanced diet ?



[Watch Video Solution](#)

**165.** What are the nutrients present in balanced diet ?



[Watch Video Solution](#)

**166.** What is malnutrition ?



[Watch Video Solution](#)

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



[Watch Video Solution](#)

**168.** Into how many groups are the vitamins classified ?



**Watch Video Solution**

**169.** The metal ion present in vitamin  $B_{12}$  is



**Watch Video Solution**

**170.** Which vitamin deficiency causes sterility in males ?



**Watch Video Solution**

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



**Watch Video Solution**

**172.** What are heterotrophs ?



**Watch Video Solution**

**173.** What are autotrophs ?



**Watch Video Solution**

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



**Watch Video Solution**

**175.** Where do we get energy from ?



**Watch Video Solution**

**176.** In plants gaseous exchange occurs through ?



**Watch Video Solution**

**177.** From where do the aquatic plants get  $CO_2$  to manufacture food ?



**Watch Video Solution**

**178.** What are the causes for vomiting ?



**Watch Video Solution**

**179.** Why do we feel bilious or liverish ?



**Watch Video Solution**

**180.** What are the symptoms of disease pellagra?



[Watch Video Solution](#)

**181.** Which vitamin deficiency causes Rickets ? What are its symptoms ?



[Watch Video Solution](#)

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



[Watch Video Solution](#)

**183.** 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](#)



**184.** Which substance is used to remove chlorophyll from a green leaf during photosynthesis experiments?



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

188. Why does raw bread taste sweeter on mastication ?



Watch Video Solution

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



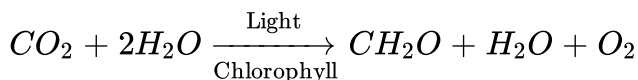
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190. What is the function of thylakoid membranes in chloroplast ?



Watch Video Solution

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



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



**Watch Video Solution**

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



**Watch Video Solution**

**195.** 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?



**Watch Video Solution**

**196.** Write names of the given sentences.

Organelle in which photosynthesis occurs.



**Watch Video Solution**

**197.** Write names of the given sentences.

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



**Watch Video Solution**

**198.** Write names of the given sentences.

The part after large intestine in digestive tract.



**Watch Video Solution**

**199.** Write names of the given sentences.

Deficiency of Vitamin "K" causing disease.



**Watch Video Solution**

**200.** Write a brief note on heterotrophic nutrition.



**Watch Video Solution**

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



**Watch Video Solution**

**202.** Briefly explain about saprophytic nutrition.



**Watch Video Solution**

**203.** What is parasitic nutrition ? Write briefly about it.



**Watch Video Solution**

**204.** Write about the nutrition in amoeba.



**Watch Video Solution**

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



**Watch Video Solution**

**206.** How can we avoid indigestion ?



**Watch Video Solution**

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



**Watch Video Solution**

**208.** What is the role of saliva in the digestion of food?



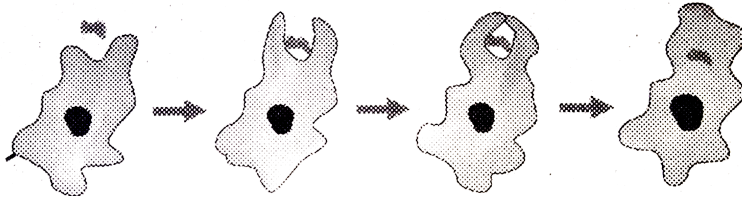
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**209.** Why the photosynthesis is important to world ?



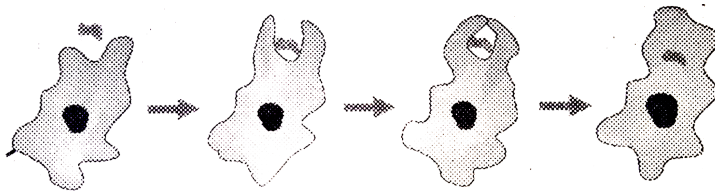
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210. Observe the following figure and add a note on it.



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211. Describe the process of nutrition in amoeba.



[Watch Video Solution](#)

212. Is the malnutrition reason for diseases ? Why ? Write any of such diseases and its characters.



[Watch Video Solution](#)



**213.** Give examples for the vitamin deficiency diseases.



**Watch Video Solution**

**214.** Briefly explain about autotrophic nutrition.



**Watch Video Solution**

**215.** What is the scattering of light ?



**Watch Video Solution**

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



**Watch Video Solution**

**217.** During dark reaction of photosynthesis



**Watch Video Solution**

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



**Watch Video Solution**

**219.** Write about the digestion of food in the small intestine.



**Watch Video Solution**

**220.** the acid formed in stomach is-



**Watch Video Solution**

**221.** The absorption of which of the following does not occur in stomach?



**Watch Video Solution**

**222.** Describe the parasitic nutrition in cuscuta.



**Watch Video Solution**

**223.** Write about the digestion of food in the small intestine.



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

**226.** Which enzymes are likely to act on the baked potatoes eaten by a man, starting from the mouth and as it moves down the alimentary canal?



**Watch Video Solution**

**227.** What are the causes for vomiting ?



**Watch Video Solution**

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



**Watch Video Solution**

**229.** Write the chemical equation of photosynthesis as an example of how the conditions are written in a chemical equation.



**Watch Video Solution**

**230.**  $CO_2$ ,  $H_2O$  sunlight and .....are required for photosynthesis.



**Watch Video Solution**

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



**Watch Video Solution**

**232.** Differentiate between the nutrition process of plants and animals.



**Watch Video Solution**

**233.** What do you think about the process of digestion?



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

**239.** How do you prove that starch is prepared in leaves during photosynthesis?



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**240.** Light is necessary in the process of photosynthesis for



[Watch Video Solution](#)

**241.** Give reasons.

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



[Watch Video Solution](#)

**242.** Starch is changed into disaccharides in the presence of:



[Watch Video Solution](#)



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



**Watch Video Solution**

**244.** 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 ?



**Watch Video Solution**

**245.** Which juice contains no enzymes ?



**Watch Video Solution**

**246.** 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

At which place liver and pancreas secrete their digestive juices ?



**Watch Video Solution**

**247.** 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

Why carbohydrates are not digested in the stomach ?



**Watch Video Solution**

**248.** 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

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



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**249.** Draw the diagram of equipments arrangement in Hydrilla experiment. You did to prove that oxygen releases in photosynthesis.  
Write reasons why test tube is placed upside down on funnel.



**Watch Video Solution**

**250.** Test the nature of food in mouth by Litmus paper.



**Watch Video Solution**

**251.** Draw a flow chart of human digestive system.



**Watch Video Solution**

**252.** Draw a neat labelled diagram of T.S. of leaf.



**Watch Video Solution**

**253.** What is the function of stomata in plants?



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

**256.** How will you appreciate role of tongue ?



**Watch Video Solution**

**257.** 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?



**Watch Video Solution**

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



**Watch Video Solution**

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



**Watch Video Solution**

**260.** What precautions should a person suffering from obesity take ?



**Watch Video Solution**

**261.** Walls of stomach secrets acids to make the stomach acidic and for the digestion of food, when the acid is secreted in excess it leads to indigestion, heart burn, (or) gastric ulcers. The chemicals which are used to neutralize the excess acid present in the gastric juice and to raise the pH of stomach upto an appropriate level are called antacids.

The acid secreted in stomach?

A. Acetic acid

B. Hydrochloric acid

C. Sulphuric acid

D. Nitric acid

**Answer:**



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**262.** Choose the correct answer and write its letter in the brackets:

Choose the correct statement about photosynthesis

A. Conversion of light energy to heat energy

B. Conversion of light energy to chemical energy

C. Conversion of light energy to electrical energy

D. Conversion of heat energy to chemical energy

**Answer:**



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**263.** Identify the mis-matched pair.

- A. Haustoria - Cuscuta
- B. Testosterone - Ovary
- C. Granum - Chloroplast
- D. Epiglossitis - Mouth

**Answer:**



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**264.** Identify the pair which is mismatched.

- A. Protein - Amino acids
- B. Carbohydrate-Glucose
- C. Fats - Starch
- D. Glucose - Starch



**Answer:**



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**265.** Iodine solution is used for testing the presence of

A. Betadine

B. Bromine

C. Chlorine

D. Benzene

**Answer:**



**Watch Video Solution**

**266.** Choose the correct answer and write its letter in the brackets:

Deficiency of folic acid causes.....

A. Anaemia

B. Pellagra

C. Glossitis

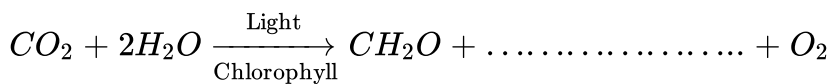
D. Rickets

**Answer:**



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**267.** Find the missing product in the equation.



A.  $CO_2$

B.  $H_2O$

C.  $C_6H_{12}O_6$

D.  $6SO_2$

**Answer:**



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**268.** Give examples for the vitamin deficiency diseases.

A.  $B_1$

B.  $B_2$

C.  $B_3$

D.  $B_6$

**Answer:**



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**269.** Iodine solution is used for testing the presence of

A. Fats

B. Proteins

C. Vitamins

D. Carbohydrates

**Answer:**



**Watch Video Solution**

**270.** Find the odd one different from the other three.

A. Carbohydrate

B. Fats

C. Proteins

D. Pyrethroids

**Answer:**



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**271.** 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 ?

- A. Dodder
- B. Haustoria
- C. Legume roots
- D. Aerial roots

**Answer:**



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

- A. Methylated spirit
- B. KOH solution
- C. Iodine solution

D. Acetic acid

**Answer:**



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**273.** Haemoglobin is a

A. Sulphur

B. Iron

C. Phosphorus

D. Calcium

**Answer:**



**Watch Video Solution**

**274.** How you can prove that carbondioxide is essential for plants?

- A. Diazine solution
- B. Crystal violet
- C. Safranin
- D. Potassium hydroxide

**Answer:**



**Watch Video Solution**

**275.** Excess of maganese induce the deficiency of

- A. Retinol
- B. Niacin
- C. Folic acid
- D. Ascorbic acid

**Answer:**



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**276.** Choose the correct answer and write its letter in the brackets:

Identify the saprophytic organisms.

- A. Bacteria
- B. Fungi
- C. Human beings
- D. Bacteria and Fungi

**Answer:**



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**277.** Choose the correct answer and write its letter in the brackets:

Autotrophs are the organisms.

- A. Depend on others for their food.
- B. Synthesize their own food.



C. Hunt for food.

D. cannot synthesize their food.

**Answer:**



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**278.** Choose the correct answer and write its letter in the brackets:

Autotrophs are capable of producing these large compounds from very simple substances.

A. Carbohydrates

B. Proteins

C. Lipids

D. All the above

**Answer:**



**Watch Video Solution**

**279.** Choose the correct answer and write its letter in the brackets:

An equation for photosynthesis that was readily accepted and is still widely used is the one formulated by.

- A. C.B. Van Neil
- B. Von Helmont
- C. Jan Ingenhousz
- D. Engelman

**Answer:**



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**280.** Iodine solution is used for testing the presence of

- A. Glucose
- B. Light

C. Starch

D. Carbon dioxide

**Answer:**



**Watch Video Solution**

**281.** Identify the incorrect of the following pairs.

Calciferol - Rickets

Biotin - Anaemia

Ascorbic acid - Scurvy

Niacin - Pellagra

A. Calciferol – Rickets

B. Biotin – Anaemia

C. Ascorbic acid – Scurvy

D. Niacin – Pellagra

**Answer:**



[Watch Video Solution](#)

**282.** Choose the correct answer and write its letter in the brackets:

Plants restore to the air whatever breathing animals and burning candles remove this was hypothesized by.....

- A. Lavoisier
- B. Von Helmont
- C. Joseph Priestly
- D. Jan Ingenhousz

**Answer:**



[Watch Video Solution](#)

**283.** In an annual plant, exchange of gases takes place mainly through

- A. Stomata

- B. Loose tissue on stem
- C. Loose tissue on root
- D. All the above

**Answer:**



**Watch Video Solution**

**284.** Choose the correct answer and write its letter in the brackets:

A student conducted an experiment with alternate apparatus like cyle tube, ball, vaseline. He applied vaseline inside tube and kept ball in side tube and pushes forward What phenomenon he is going to show us?

- A. Digestion
- B. Excretion
- C. Peristalsis
- D. Egestion

**Answer:**



**Watch Video Solution**

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

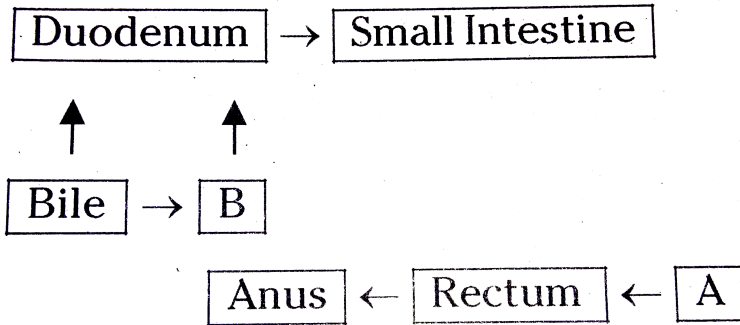
- A. Engelman
- B. Jan Ingenhousz
- C. Von Helmont
- D. Van Sachs

**Answer:**



**Watch Video Solution**

286. Fill the following flow chart with correct organs A & B.



A. Pyloric stomach, Pancreas

B. Large intestine, Oesophagus

C. Cardiac stomach, Pancreas

D. Large Intestine, Pancreas

**Answer:**



**Watch Video Solution**

287. Oxygenic photosynthesis occurs in

A. Chloroplasts

B. Mitochondria

C. Cytoplasm

D. Ribosomes

**Answer:**



**Watch Video Solution**

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

A. Absorbs  $CO_2$

B. Absorbs Oxygen

C. Supplies carbon dioxide

D. Releases  $CO_2$

**Answer:**



**Watch Video Solution**



**289.** Name the pigment present in chloroplast.

- A. Xanthophyll
- B. Chlorophyll
- C. Carotene
- D. Phycobilin

**Answer:**



**Watch Video Solution**

**290.** Chlorophyll in chloroplasts is located in

- A. Golgi apparatus
- B. Mitochondria
- C. Chloroplast

D. Vacuole

**Answer:**



**Watch Video Solution**

**291.** A person suffering from improper formation of bones, knockness, swollen wrists and delayed dentition. What might be the reason ?

- A. Deficiency of vitamin 'E'
- B. Deficiency of vitamin 'D'
- C. Deficiency of vitamin 'K'
- D. Deficiency of vitamin A

**Answer:**



**Watch Video Solution**

**292.** Find out wrong pair .

Saliva - Ptyaline

Pancreatic juice - Amylase

Gastric juice - Lipase

Intestinal juice - Peptidose

A. Saliva-Ptyaline

B. Pancreatic juice-Amylase

C. Gastric juice – Lipase

D. Intestinal juice – Peptidose

**Answer:**



**Watch Video Solution**

**293.** Splitting of water molecule during photosynthesis is known as ?

A. Emulsification

B. Photolysis

C. Electrolysis

D. Hydrolysis

**Answer:**



**Watch Video Solution**

**294.** What do you call particles of light rays which carry energy?

A. Photons

B. Protons

C. Neutrons

D. Electrons

**Answer:**



**Watch Video Solution**

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

- A.  $O_2$ , ATP
- B. ATP, NADPH
- C.  $O_2$ , NADPH
- D.  $O_2$ , ATP, NADPH

**Answer:**



**Watch Video Solution**

**296.** Write differences between

Light reaction - Dark reaction:

- A. Less than even one thousand of a Second
- B. More than one thousand of a second
- C. Less than even one thousand of a Minute

D. More than one thousand of a minute

**Answer:**



**Watch Video Solution**

**297.** Which substance undergoes reduction in dark phase - I ?

A. Nitrogen

B. Oxygen

C.  $CO_2$

D. Hydrogen

**Answer:**



**Watch Video Solution**

**298.** Choose the correct answer and write its letter in the brackets:

Photosynthesis process is determined on the production of carbohydrates but not on the production of glucose. Reason is

- A. Carbohydrates are intermediary –Product in photosynthesis
- B. Glucose which is formed in photosynthesis immediately Converted into carbohydrate
- C. Carbohydrates dissolve in water
- D. Glucose is not tested

**Answer:**



**Watch Video Solution**

**299.** What are the end products of dark reaction ?

- A. PGA
- B.  $C_6H_{12}O_6$

C.  $CO_2$

D. Ribulose biphosphate

**Answer:**



**Watch Video Solution**

**300.** Potential energy is converted into kinetic energy by

A. Respiration

B. Photosynthesis

C. Fermentation

D. Kreb's cycle

**Answer:**



**Watch Video Solution**



**301.** Give an example for parasitic plant.

- A. Cuscuta
- B. Cucumis
- C. Hibiscus
- D. Helianthus

**Answer:**



**Watch Video Solution**

**302.** Mention the strategies by which the food is taken and used by different organisms?

- A. Bread moulds
- B. Yeast
- C. Mushrooms
- D. All

**Answer:**



**Watch Video Solution**

**303.** Choose the correct answer and write its letter in the brackets:

Amoeba, takes in food through.....

- A. Nephridia
- B. Cytostome
- C. Pseudopodia
- D. All the above

**Answer:**



**Watch Video Solution**

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

- A. To remove green substance from leaves
- B. To remove carbohydrates
- C. To prove no photosynthetic process takes place
- D. To know there is no carbohydrate In the leaves

**Answer:**



**Watch Video Solution**

**305.** Choose the correct answer and write its letter in the brackets:

Salive contains an enzyme called.....

- A. Amylase
- B. Pepsin
- C. Trypsin
- D. Lipase

**Answer:**



[Watch Video Solution](#)

**306.** Choose the correct answer and write its letter in the brackets:

Proteins in the food are digested by....

- A. Pepsin
- B. Trypsin
- C. Lipase
- D. Pepsin, Trypsin

**Answer:**



[Watch Video Solution](#)

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

- A. Stomach

- B. Small intestine
- C. Large intestine
- D. Buccal cavity

**Answer:**



**Watch Video Solution**

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

- A. Bile juice
- B. Pancreatic juice
- C. Intestinal juice
- D. All the above

**Answer:**



**Watch Video Solution**

**309.** The digestive juice without enzyme is

- A. Pancreatic juice
- B. Bile juice
- C. intestinal juice
- D. All the above

**Answer:**



**Watch Video Solution**

**310.** Pancreatic juice contains enzymes for carrying the process of digestion of ..... and .....

- A. Trypsin, Chymotrypsin
- B. Lipase, Amylase
- C. Trypsin, Lipase
- D. Both A and B

**Answer:**



**Watch Video Solution**

**311.** Chyme is that food, which is ready

- A. partially digested food
- B. An undigested food
- C. Absorbed food
- D. Solid food

**Answer:**



**Watch Video Solution**

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

- A. Stomach
- B. Mouth
- C. Large intestine
- D. Small intestine

**Answer:**



**Watch Video Solution**

**313.** Choose the correct answer and write its letter in the brackets:

The longest part of alimentary canal is.....

- A. Small intestine
- B. Large intestine
- C. Oesophagus
- D. Stomach

**Answer:**





[Watch Video Solution](#)

**314.** How is water absorbed ?

- A. Stomach
- B. Large intestine
- C. Small intestine
- D. Mouth

**Answer:**



[Watch Video Solution](#)

**315.** Why do we feel bilious or liverish ?

- A. when we eat rich meals several days
- B. when we eat malnutrition food for several days
- C. When we eat fat containing food for Few days

D. When we do not eat anything

**Answer:**



**Watch Video Solution**

**316.** Choose the correct answer and write its letter in the brackets:

We can avoid indigestion by.....

A. having simple well-balanced diet

B. eating food in a leisurely manner

C. thoroughly masticating food and taking violent exercise after eating food

D. All the above

**Answer:**



**Watch Video Solution**

**317.** Is the malnutrition reason for diseases ? Why ? Write any of such diseases and its characters.

A. Kwashiorkor

B. Marasmus

C. Pellagra

D. Obesity

**Answer:**



**Watch Video Solution**

**318.** Choose the correct answer and write its letter in the brackets:

The reasons for malnutrition in our country

A. Poor health, will - full starvation

B. Lack of awareness of nutritional habits

C. Socio economic factors,

D. All the above

**Answer:**



**Watch Video Solution**

**319.** Choose the correct answer and write its letter in the brackets:

This disease is due to deficiency of proteins and calories.

A. Kwashiorkor

B. Marasmus

C. Obesity

D. Pellagra

**Answer:**



**Watch Video Solution**

**320.** Choose the correct answer and write its letter in the brackets:

Deficiency of thiamine leads to a disease called

- A. Glossitis
- B. Scurvy
- C. Anaemia
- D. Beriberi

**Answer:**



**Watch Video Solution**

**321.** Glossitis is the deficiency disease due to vitamin\_\_\_\_\_

- A. Riboflavin
- B. Niacin
- C. Pyridoxine
- D. Cyanocobalamine

**Answer:**



**Watch Video Solution**

**322.** The vitamin that helps in healing the wounds?

A. K

B. C

C. D

D. A

**Answer:**



**Watch Video Solution**

**323.** Name the vitamin responsible for the coagulation of blood.

A.  $B_6$

B. K

C. E

D. C

**Answer:**



**Watch Video Solution**

**324.** The vitamin required for the synthesis of nucleic acid is \_\_\_\_\_

A. Tocoferol

B. Folic acid

C. Cyanocobalamine

D. Riboflavin

**Answer:**



**Watch Video Solution**

**325.** Which vitamin is commonly known as antisterility vitamin?

- A. A
- B.  $B_{12}$
- C. K
- D. E

**Answer:**



**Watch Video Solution**

**326.** Choose the correct answer and write its letter in the brackets:

Pernicious Anemia occurs due to the deficiency of.....

- A. Vitamin  $B_6$
- B. Vitamin  $B_{12}$
- C. Vitamin  $B_3$
- D. Vitamin  $B_2$



**Answer:**



**Watch Video Solution**

**327.** Choose the correct answer and write its letter in the brackets:

Fat soluble vitamins are .....

A. Vitamin A

B. Vitamin B and C

C. Vitamin A, D, E and K

D. Vitamin A, B and C

**Answer:**



**Watch Video Solution**

**328.** The loss or reduction of chlorophyll in the leaves is termed as

- A. Break down of water molecule into Hydrogen and oxygen
- B. To release green light
- C. To trap solar energy
- D. None

**Answer:**



**Watch Video Solution**

**329.** What chemical is used to know the presence of carbohydrates in leaves?

- A. Methylated spirit
- B. Iodine
- C. Methylated spirit, Iodine
- D. None

**Answer:**



[Watch Video Solution](#)

**330.** Choose the correct answer and write its letter in the brackets:

The process of digestion of food in human beings starts in.....

- A. Mouth
- B. Oesophagus
- C. Stomach
- D. Small intestine

**Answer:**



[Watch Video Solution](#)

**331.** The correct order of steps occurring in nutrition in animals is: \_\_\_\_\_

- A. Ingestion to Absorption to Digestion to Assimilation to Egestion`
- B. Ingestion to Digestion to Assimilation to Absorption to Egestion`

C. Ingestion to Digestion to Absorption to Assimilation to Egestion`

D. Ingestion to Assimilation to Digestion to Absorption to Egestion`

**Answer:**



**Watch Video Solution**

**332.** Where are proteins first digested in the alimentary canal?

A. Mouth

B. Oesophagus

C. Stomach

D. small intestine

**Answer:**



**Watch Video Solution**

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

- A. Pepsin
- B. Amylase
- C. Lipase
- D. Trypsin

**Answer:**



**Watch Video Solution**

**334.** The oxygen liberated during the photosynthesis given by Engelmann using all , except

- A. Glucose
- B. Water
- C.  $CO_2$
- D. Chlorophyll

**Answer:**



**Watch Video Solution**

**335.** How does opening and closing of stomata take place?

- A. Temperature
- B. Minerals
- C. Water in guard cells
- D. Oxygen

**Answer:**



**Watch Video Solution**

**336.** Photosynthesis is

- A. Photolysis of water

- B. Production of ATP, NADPH
- C. Carbon dioxide reduction
- D. Excitation of chlorophyll

**Answer:**



**Watch Video Solution**

**337. Water soluble vitamins are**

- A. A, D, K vitamins
- B. B complex and C vitamins
- C. Vitamins A, K and E
- D. B complex vitamins

**Answer:**



**Watch Video Solution**

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

- A. Large intestine
- B. Small intestine
- C. Stomach
- D. All the above

**Answer:**



**Watch Video Solution**

**339.** Hydrochloric acid at  $25^{\circ}C$  is

- A. Gastric juice
- B. Intestinal juice
- C. Pancreatic juice
- D. Bile juice



**Answer:**



**Watch Video Solution**

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

- A. Pantothenic acid
- B. Nicotine acid
- C. Cyanocobalamin
- D. Pyridoxine

**Answer:**



**Watch Video Solution**

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

A. Blue black

B. Black blue

C. Green

D. Brown

**Answer:**



**Watch Video Solution**

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

A. Von Sachs

B. Von Helmont

C. Jan ingenhousz

D. Robert Hill

**Answer:**



[Watch Video Solution](#)

**343.** Choose the correct answer and write its letter in the brackets:

The name oxygen was coined by

A. Joseph Prlestly

B. Engelman

C. Lavoisier

D. Daniel 1. Arnon

**Answer:**



[Watch Video Solution](#)

**344.** Choose the correct answer and write its letter in the brackets:

Massive amounts of gaseous exchange occurs through the

A. Stomata

B. Intercellular spaces

C. Roots

D. Lenticels

**Answer:**



**Watch Video Solution**

**345.** Choose the correct answer and write its letter in the brackets:

Potassium hydroxide solution absorbs

A. nitrogen

B. carbon dioxide

C. Oxygen

D. potassium

**Answer:**



**Watch Video Solution**

**346.** Choose the correct answer and write its letter in the brackets:

Chlorophyll in an organelle called chloroplast was observed first time by

- A. C.B. Van Neil
- B. Jan ingenhousz
- C. Engelman
- D. Julius Von Sachs

**Answer:**



**Watch Video Solution**

**347.** Choose the correct answer and write its letter in the brackets:

In photosynthesis finally the glucose is converted to

- A. Carbohydrate
- B. Starch

C. Proteins

D. Fats

**Answer:**



**Watch Video Solution**

**348.** Light reaction of Photosynthesis occurs inside

A. Grana

B. Stroma

C. Vacuole

D. Golgi complex

**Answer:**



**Watch Video Solution**

**349.** During dark reaction of photosynthesis

- A. Stroma lamellae
- B. Cytoplasm
- C. Mitochondria
- D. Stroma

**Answer:**



**Watch Video Solution**

**350.** Organisms which breakdown the food materials outside the body and absorb them are

- A. Parasites
- B. Saprophytes
- C. Symbiotes
- D. Holozoits

**Answer:**



**Watch Video Solution**

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

- A. To absorb chlorophyll in leaves
- B. To absorb air in bottle
- C. To absorb  $CO_2$ , in bottle
- D. To absorb water vapour in the bottle.

**Answer:**



**Watch Video Solution**

**352.** Choose the correct answer and write its letter in the brackets:

Cuscuta plant absorbs nutrient through



- A. Rhizoids
- B. Haustoria
- C. Coralloid roots
- D. Pneumatophores

**Answer:**



**Watch Video Solution**

**353.** What is the process of taking food inside the body?

- A. Defecation
- B. Absorption
- C. Ingestion
- D. Digestion

**Answer:**



**Watch Video Solution**

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

- A. Sublingual
- B. Parotid
- C. Submaxillary
- D. All the above

**Answer:**



**Watch Video Solution**

**355.** Slow decomposition of complex organic compounds into simpler ones by enzymes is known as

- A. Trypsin
- B. Amylase
- C. Lipase

D. Pepsin

**Answer:**



**Watch Video Solution**

**356.** Draw peristaltic movement of food in stomach. Describe movement of food in stomach.



- A. Mouth
- B. Large intestine
- C. Oesophagus
- D. All the above

**Answer:**



**Watch Video Solution**

**357.** Name the enzymes used in Conversion of proteins into peptides in stomach.

- A. Small intestine
- B. Mouth
- C. Oesophagus
- D. Stomach

**Answer:**



**Watch Video Solution**

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

- A. Sphincter muscle
- B. Circular muscle
- C. Longitudinal muscle

D. Round muscle

**Answer:**



**Watch Video Solution**

**359.** Hepato-pancreatic duct opens into the duodenum and carries

A. Stomach

B. Small intestine

C. Large intestine

D. Oesophagus

**Answer:**



**Watch Video Solution**

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

- A. Stomach
- B. Large intestine
- C. Small intestine
- D. All the above

**Answer:**



**Watch Video Solution**

**361.** Which part of small intestine absorbs digested food ?

- A. Liver
- B. Pancreas
- C. Liver and pancreas
- D. Liver, pancreas and stomach

**Answer:**



**Watch Video Solution**

**362.** What do villi consist of ?

- A. Only blood vessels
- B. Only lymph vessels
- C. Both blood and lymph vessels
- D. None

**Answer:**



**Watch Video Solution**

**363.** Over eating is the main reason for vomiting because of the presence of high amount of this in the food.

A. Carbohydrate

B. Protein

C. Fat

D. Minerals

**Answer:**



**Watch Video Solution**

**364.** What are the end products of light reaction ?

A. Grana of chloroplasts

B. Stroma of chloroplasts

C. Mitochondria

D. Golgi complex

**Answer:**



**Watch Video Solution**



**365.** We can avoid this by having plenty of roughage in the diet

- A. Defecation
- B. Constipation
- C. Absorption
- D. Transportation

**Answer:**



**Watch Video Solution**

**366.** Hill reaction occurs in

- A. Break down of water molecule is by light
- B. Break down of chlorophyll atom by light
- C. Conversion of hydrogen ions of water to hydroxyl ions

D. Water is formed by combination of Water hydrogen and hydroxyl ions

**Answer:**



**Watch Video Solution**

**367.** Eating of food that does not have one or more than one nutrients in required amounts is known as

- A. Nutrition
- B. Malnutrition
- C. Marasmus
- D. Kwashiorkor

**Answer:**



**Watch Video Solution**

**368.** Complete the following blanks.

Kwashiorkor is due to the deficiency of .....(1) and Marasmus occurs because of ..... (2).

- A. Proteins
- B. Calories
- C. Both proteins and Calories
- D. Fats

**Answer:**



**Watch Video Solution**

**369.** Obesity is due to eating food having

- A. Low quantities of nutrients
- B. High quantities of nutrients
- C. Over eating and excess of energy intake

D. Less eating with low energy intake

**Answer:**



**Watch Video Solution**

**370.** The gastric juice contains ..... acid.

A. Hydrochloric acid

B. Pepsin

C. Mucus

D. All the above

**Answer:**



**Watch Video Solution**

**371.** What are the essential factors required for photosynthesis ?

- A. Carbon dioxide, oxygen, water
- B. Chlorophyll, sunlight, water
- C. Chlorophyll, carbon dioxide, water,
- D. Carbon dioxide, water, sunlight, Oxygen

**Answer:**



**Watch Video Solution**

**372.** Chlorophyceae members are called as green algae because they appear green coloured due to the presence of

- A. They reflect green light
- B. They absorb green light
- C. They refract green light
- D. All the above

**Answer:**

 [Watch Video Solution](#)

**373.** What is photolysis of water ?

A.  $OH^-$  ions

B. OH - ions

C. CF tons

D.  $H^-$  ions

**Answer:**

 [Watch Video Solution](#)

**374.** What is the role of acid in stomach ?

A. It kills harmful germs

B. HCl creates an acidic medium

C. Both A and B

D. None

**Answer:**



**Watch Video Solution**

**375.** What is autotrophic nutrition ?

A. ATP

B. NADP

C. NADPH

D. ATGC

**Answer:**



**Watch Video Solution**

**376.** Chlorophyll contains

A. Iron

B. Magnesium

C. Potassium

D. Calcium

**Answer:**



**Watch Video Solution**

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

A. Root

B. Stem

C. Leaf

D. All the above

**Answer:**



**Watch Video Solution**



**378.** Carbohydrate digestion do not occur in this part of alimentary canal

- A. Mouth
- B. Oesophagus
- C. Stomach
- D. Small intestine

**Answer:**



**Watch Video Solution**

**379.** What is the end product of photosynthesis?

- A. Glucose
- B. Oxygen
- C. Water

D. All the above

**Answer:**



**Watch Video Solution**

**380.** Describe the parasitic nutrition in cuscuta.

- A. Absence of chlorophyll in leaves
- B. Absence of roots
- C. Steam in week
- D. Less absorption of water

**Answer:**



**Watch Video Solution**

**381.** What are the nutrients present in balanced diet ?

A. Carbohydrates, Proteins

B. Fats , vitamins

C. Mineral salts

D. All the above

**Answer:**



**Watch Video Solution**

**382.** Which vitamin is present only in animal food sources?

A. Calciferol

B. Tocoferol

C. Retinol

D. Phylloquinone

**Answer:**



**Watch Video Solution**

**383.** Name the fat soluble vitamins.

- A. Vitamin K
- B. Vitamin D
- C. Vitamin B
- D. Vitamin E

**Answer:**



**Watch Video Solution**

**384.** What are the enzymes that act on proteins ?

- A. Trypsin, Chymotrypsin
- B. Ptyalin, Amylase
- C. Pepsin, Trypsin

D. Lipase, Sucrase

**Answer:**



**Watch Video Solution**

**385.** Identify the incorrect of the following pairs.

Calciferol - Rickets

Biotin - Anaemia

Ascorbic acid - Scurvy

Niacin - Pellagra

A. Burning feet

B. Nerve disorders

C. Anaemia

D. Pellagra

**Answer:**



**Watch Video Solution**

**386.** The chemical name of Vitamin B1 is

- A. Thiamine
- B. Riboflavin
- C. Niacin
- D. Pyridoxine

**Answer:**



**Watch Video Solution**

**387.** What are the causes for vomiting ?

- A. Over eating
- B. Food containing high proportion of fat
- C. When we eat something very indigestible or poisonous

D. All the above

**Answer:**



**Watch Video Solution**

**388.** Choose the correct answer and write its letter in the brackets:

The process of digestion of food in human beings starts in.....

A. Stomach

B. Large Intestine

C. Oesophagus

D. Small intestine

**Answer:**



**Watch Video Solution**

**389.** Where are proteins first digested in the alimentary canal?

- A. Mouth
- B. Stomach
- C. Oesophagus
- D. Small intestine

**Answer:**



**Watch Video Solution**

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

- A. Amylase
- B. Pepsin
- C. Trypsin
- D. Lipase



**Answer:**



**Watch Video Solution**

**391.** The internal energy (cellular energy) . reserve in autotrophs is

- A. Proteins
- B. Fatty acids
- C. Glycogen
- D. Starch

**Answer:**



**Watch Video Solution**

**392.** Photosynthesis

- A. Nucleus

B. Chloroplast

C. Ribosomes

D. Chromoplast

**Answer:**



**Watch Video Solution**

**393.** Process responsible for the oxygen equilibrium in the atmosphere

A. Nitrogen fixation

B. Transport

C. Photosynthesis

D. Protein synthesis

**Answer:**



**Watch Video Solution**

**394.** Variegated leaf experiment demonstrates that

- A. Light
- B. Chlorophyll
- C. Oxygen
- D. Carbon dioxide

**Answer:**



**Watch Video Solution**

**395.** Mohl's half leaf experiment demonstrates the importance of

- A. Carbon dioxide
- B. Oxygen
- C. Sunlight
- D. Water

**Answer:**



**Watch Video Solution**

**396.** Mohl's half leaf experiment demonstrates the importance of

- A. Leaf part in the glass bottle
- B. Exposed part of the glass bottle
- C. Total leaf
- D. Petiole of the leaf

**Answer:**



**Watch Video Solution**

**397.** Choose the correct answer and write its letter in the brackets:

Plants restore to the air whatever breathing animals and burning candles remove this was hypothesized by.....

- A. Lavoisier
- B. Joseph Preistiy
- C. Engelman
- D. Robert Hill

**Answer:**



**Watch Video Solution**

**398.** The source of carbon is external source for

- A. Carbon monoxide
- B. Carbonates
- C. Carbon dioxide
- D. All the above

**Answer:**



**Watch Video Solution**

**399.** What are heterotrophs ?

- A. Organic molecule
- B. Inorganic molecule
- C. Atmosphere
- D. Soil

**Answer:**



**Watch Video Solution**

**400.** 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  $C_6H_{11}O_6$

- A. All plants
- B. Animals

C. Green plants

D. All living organisms

**Answer:**



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**401.** What causes a green plant exposed to the light , on only one side , to bend towards the source of light as it grows ?

A. Chlorophyll

B. Xanthophyll

C. Carotenoid

D. Phycobilin

**Answer:**



**Watch Video Solution**

**402.** The most abundant protein in the animal world is

- A. Chlorophyll-2
- B. Chlorophyll-b
- C. Xanthophylls
- D. Carotenoid

**Answer:**



**Watch Video Solution**

**403.** Photosynthesis

- A. Blue and Red light
- B. Red and Green light
- C. Green and Blue light
- D. Only in Green light



**Answer:**



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

- A. Saliya
- B. Gastric juice
- C. Peptic
- D. Bile juice

**Answer:**



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**405.** Walls of stomach secrets acids to make the stomach acidic and for the digestion of food, when the acid is secreted in excess it leads to indigestion, heart burn, (or) gastric ulcers. The chemicals which are used

to neutralize the excess acid present in the gastric juice and to raise the pH of stomach upto an appropriate level are called antacids.

The acid secreted in stomach?

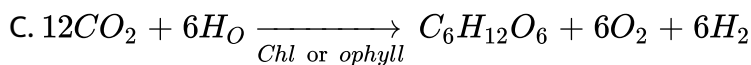
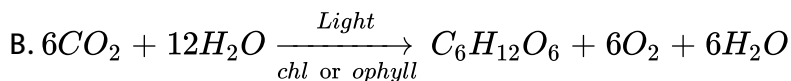
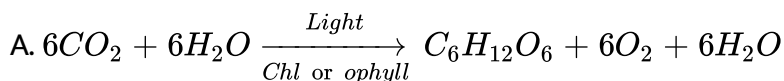
- A. Uneasy
- B. Stress and strain
- C. Bacteria
- D. All

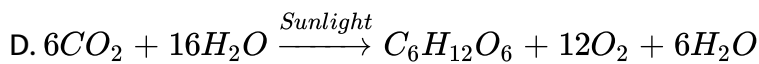
**Answer:**



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**406.** Which of the following equation is the correct summary of photosynthesis?





**Answer:**



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**407.** Riboflavin (B) deficiency causes.

A. Beri Beri

B. Glossitis

C. Pellagra

D. Anaemia

**Answer:**



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**408.** Pellagra is caused due to deficiency of vitamin –

A. Pyridoxine( $B_6$ )

B. Niacin ( $B_3$ )

C. Cyanocobalamine( $B_{12}$ )

D. Folic acid

**Answer:**



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

A. Burning feet

B. Scurvy

C. Xerophthalmia

D. Pernicious anaemia

**Answer:**



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**410.** Which vitamin is commonly known as antisterility vitamin?

- A. Vitamin K
- B. Vitamin B
- C. Vitamin E
- D. Biotin

**Answer:**



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**411.** Deficiency of vitamin  $B_1$  causes the disease

- A. Pernicious Anaemia
- B. Anaemia
- C. Pellagra

D. Glossitis

**Answer:**



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**412.** Name the bile pigments?

A. Esterification

B. Hydrogenation

C. Oxidation

D. Emulsification

**Answer:**



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**413.** 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.

A. Retinol

B. Niacine

C. Folic acid

D. None of the above

**Answer:**



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**414.** The oxygen liberated during the photosynthesis given by Engelmann using all , except

A. water

B. carbon dioxide

C. chlorophyll

D. glucose

**Answer:**



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**415.** In some people blood does not coagulate. Give the reasons for it?

A. Deficiency of vitamin D

B. Deficiency of vitamin K

C. Rani has a lot of bad blood in her body

D. Rani has less blood

**Answer:**



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**416.** During Photosynthesis, several events occurs in the chloroplast.

Explain the light dependent reactions.

- A. carbohydrates will not be prepared
- B. the plant will die
- C. the plant will grow healthy
- D. all the above

**Answer:**



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**417.** In an annual plant, exchange of gases takes place mainly through

- A. leaf veins
- B. cepals
- C. stomata
- D. xylem

**Answer:**



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

- A. Beri - beri, scurvy, pellagra, glossitis
- B. Kwashiorkor, marasmus, diabetes, obesity
- A. proteins
- B. calories
- C. options(A)and(B)
- D. None of these

**Answer:**



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**419.** Choose the correct answer and write its letter in the brackets:

As per the advice of the doctor, a patient needs to be given gulcose.....

- A. till the total recovery of the patient
- B. till confirming that the patient is in no debility
- C. till the patients sleeps
- D. Options (A)and (B)

**Answer:**



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**420.** Choose the correct answer and write its letter in the brackets:

Observe the below statements.

protien deficiency in diet leads to kwashiorkor disease.

Deficiency of only calories leads to Marsmys disease.

- A. (i) and (ii) are true

B. true but (ii) false

C. False but (ii) true

D. And (ii) both false

**Answer:**



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**421.** In which process respiration takes place?

A. Respiration

B. Reproduction

C. Photosynthesis

D. Water transportation

**Answer:**



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**422.** Choose the correct answer and write its letter in the brackets:

A person is not suffering from indigestion This can be analysed as .....

- A. balanced diet is not taken
- B. taking diet in hurry
- C. thoroughly chewing the food
- D. doing exercise after meal

**Answer:**



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**423.** Choose the correct answer and write its letter in the brackets:

The carbohydrate stored in plants is

- A. Glucose
- B. Starch
- C. Fructose

D. Sucrose

**Answer:**



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

A. Pelletier

B. Ingenhousz

C. Von Helmont.

D. Caventou

**Answer:**



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**425. Photosynthesis**

- A. Mitochondria
- B. Cytoplasm
- C. Nucleus
- D. Chloroplast

**Answer:**



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**426. Choose the correct answer and write its letter in the brackets:**

Oxygen is released during this process

- A. Photosynthesis
- B. Photolysis
- C. Respiration
- D. None of the above

**Answer:**



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**427.** Choose the correct answer and write its letter in the brackets:

The third layer of chloroplast is

- A. Inner membrane
- B. Stroma
- C. Grana
- D. Epidermis

**Answer:**



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**428.** Choose the correct answer and write its letter in the brackets:

The teeth we use to cut an apple are



A. Incisors

B. Caniries

C. Premolars

D. Molars

**Answer:**



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**429.** What are the symptoms of kwashiorkor disease?

A. Pernicious anaemia

B. Anaemia

C. Burning feet

D. Scurvy

**Answer:**



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**430.** The 3 D-s - Diarrhoea, Dermatitis, Dementia are the symptoms of the disease:

- A. Beri Beri
- B. Glossitis
- C. Pellagra
- D. Anaemia

**Answer:**



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

- A. Thiamine
- B. Calciferol

C. Ascorbic acid

D. Tocoferol

**Answer:**



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**432.** Opening of stomach into small intestine is guarded by

A. Duodenum

B. Jejunum

C. Ileum

D. Rectum

**Answer:**



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**433.** Give examples for the vitamin deficiency diseases.

- A. Calciferol
- B. Tocoferol
- C. Phylloquinone
- D. Retinol

**Answer:**



**Watch Video Solution**

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

- A. Trypsin
- B. Pepsin
- C. Lipase
- D. Amylase

**Answer:**



**Watch Video Solution**

**435.** Number of salivary glands in humans is

A. Amylase

B. Sucrose

C. Lactose

D. Ptyalin

**Answer:**



**Watch Video Solution**

**436.** Name the pigment present in chloroplast.

A. iron

B. magnesium

C. calcium

D. None of the above

**Answer:**



**Watch Video Solution**

**437.** The scientist who breaks up plant cells to isolate chloroplast is

A. Daniel I, Arnon

B. Robert Hill

C. Melvin Calvin

D. Jan Ingenhousz

**Answer:**



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**438.** Give reasons.

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

- A. Valisneria
- B. Hydrilla
- C. Rose
- D. China Rose

**Answer:**



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**439.** Differentiate between the nutrition process of plants and animals.

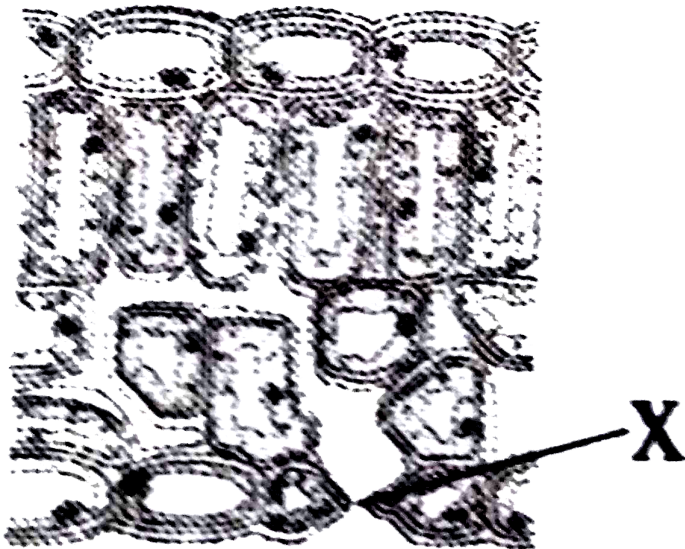
- A. saprophytic nutrition
- B. parasitic nutrition
- C. holozoic nutrition

D. autotrophic nutrition

Answer:



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440.

Identify 'X'

A. Chyme

B. Bolus



C. Digestive enzyme

D. All of the above

**Answer:**



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

A. Vitamin - B

B. Vitamin -  $B_2$

C. Vitamin - A

D. Vitamin-C

**Answer:**



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

- A. a, b false
- B. a correct, b false
- C. both a, b correct
- D. Both (a), (b) correct

**Answer:**



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**443.** Power houses of the cell is

- A. Assimilatory energy
- B. Energy currency
- C. Cell currency
- D. Emergency currency

**Answer:**



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**444.** Green plants : roots , Cuscuta : ?

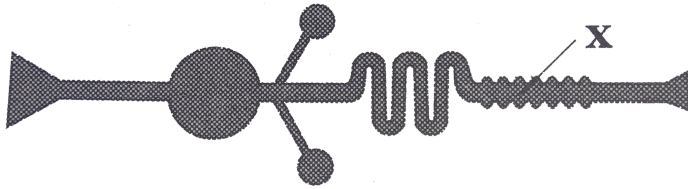
- A. Rhizopodia
- B. Lobopodia
- C. Pseudopodia
- D. Haustoria

**Answer:**



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



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

- A. Small intestine
- B. Pyloric sphincter
- C. Anus
- D. Large intestine

**Answer:**



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**446.** Fd-NADP reductase is located

- A. Nicotine

B. Phosphate

C. Nicotinamide Adenine Double Phosphate

D. Nicotinamide Adenine Di Phosphate

**Answer:**



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