



BIOLOGY

BOOKS - NAND LAL PUBLICATION

LIFE PROCESSES

Activity 6 1

1. What happens to the colour of the leaf.

What is the colour of the solution ?



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2. How would you test the presence of starch in leaves?



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Activity 6 2

1. Do both the leaves show the presence of same amount of starch?



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2. What can you conclude from this activity.



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Activity 6 3

1. In which test tube do you observe a colour change?



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2. What does this indicate about the present or absence of starch in the two test tubes ?

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3. What does this tell us about the action of saliva on starch ?

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Activity 6 4

1. Fill in the blanks in the following statements:- When carbon dioxide is passed through lime water, it turns milky due to the formation of _____.



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2. Fill in the blanks in the following statements:- When carbon dioxide is passed through lime water, it turns milky due to the formation of _____.



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3. What does this tell us about the amount of carbon dioxide in the air that we breathe out?



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Activity 6 5

1. What change is observed in the lime was and how long does it take for this change to occupied.



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2. What does this tell us about the product fermentation ?



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Activity 6 6

1. Observe fish in an aquarium. They open close their mouths and the gill-slits (or the which

covers the gill-slits) behind their eyes open and close. Are the timings of the opening & closing of the mouth and gill-slits coordinated in manner?



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2. Count the number of times the fish opens closes its mouth in a minute.



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3. Compare this to the number of times breathe in and out in a minute.



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Activity 6 7

1. Visit a health centre in your locality and out what is the normal range of haemoglobin tent in human beings.



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2. Is it the same for children and adults ?



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3. Is there any difference in the haemoglobin for men and women ?



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4. Visit a veterinary clinic in your locality. Out what is the normal range of haemoglobin contents in an animal like the buffalo or cow.



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5. Is this content different in calves, male and female animals ?



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6. Compare the difference seen in male and female human beings and animals.



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7. How would the difference, if any, be explained.



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Activity 6 8

1. Do you observe any difference in the two cases?



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Intext Questions

1. Why is diffusion insufficient to meet the oxygen requirements of multicellular organisms like ?



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2. What criteria do we use to decide whether something is alive?



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3. What are outside raw materials used by living organism?



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4. What processes would you consider essential maintaining life?



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5. What are the differences between autotrophic and heterotrophic nutrition?



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



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7. What is the role of acid in our stomach?



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8. What is the function of digestive enzymes?



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9. How is the small intestine designed absorb digested food ?



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10. What advantage over an aquatic organism does a terrestrial organism have with regard to obtaining oxygen for respiration?



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11. What are the different ways in which glucose is oxidized to provide energy in various organisms?



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12. How is oxygen and CO_2 Transported in human beings?



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13. How are lungs designed in human beings to maximise the area for exchange of gases?



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14. What are the components of the transport system in human beings? What are the functions of these components?



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15. Why is it necessary to separate oxygenated and deoxygenated blood in mammals and birds?



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16. What are the components of transport system in highly organised plants?



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17. How are water and minerals transported in plants?



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18. How is food transported in plants?



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19. Describe the structure and functioning of nephron



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20. What are the methods used by plants to get rid of excretory products?



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21. How is the amount of urine produced regulated?



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22. How much water in excess is in the body moved ?



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23. How much dissolved wastes, especially wastes like urea and uric acid and salts be excreted from the body ?



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1. The kidneys in human beings are a part of the system for

A. nutrition

B. respiration

C. excretion

D. transportation

Answer: C



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2. The xylem in plants are responsible for:

- A. transport of water
- B. transport of food
- C. transport of amino acids
- D. transport of oxygen

Answer: A



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3. The autotrophic mode of nutrition requires:

A. carbon dioxide and water

B. chlorophyll

C. sunlight

D. all of the above

Answer: D



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4. The breakdown of pyruvate to give CO_2 water and energy takes place in

A. cytoplasm

B. mitochondria

C. chloroplast

D. nucleus

Answer: B



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5. How are fats digested in our bodies? Where does the process take place?



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



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7. What are the necessary conditions for autotrophic nutrition and what are its byproducts?



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8. What are the differences between aerobic respiration and anaerobic respiration ? name some organisms that are anaerobic mode of respiration?



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9. How are alveoli designed to maximise the exchange of gases?



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10. What would be the consequences of a deficiency of haemoglobin in our bodies?



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11. Describe double circulation in human beings. Why is it necessary?



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12. What are the differences between the transport of materials in xylem and phloem?



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13. Compare the functioning of alveoli in the lungs and nephrons in the kidneys with respect to their structure and functioning.



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



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2. Define the term nutrition.



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3. What are outside raw materials used by living organism?



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4. Briefly describe the digestive functions of Liver and pancreas.



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