



BIOLOGY

BOOKS - BAL BHARTI

LIFE PROCESSES IN LIVING ORGANISMS

Can You Recall

1. How do the digestive system and respiratory system work ?



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2. Previously you have performed the activity of observing a branch covered in a plastic bag. What did you observe in that activity?



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Can You Tell

1. Why does this happen?

Leaves of plants fall off in a particular season.



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2. Why does this happen?

Fruits, flowers fall off after a certain period of time.



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3. Why does this happen?

Substances like resin, gum, etc. are given out of the plant body.



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4. Which waste products are produced in our body through metabolic activities?



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5. Which waste products are produced in our body through metabolic activities?



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6. How does the process of excretion take place in humans?



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7. Which are the sensory organs of an organism? What is their function?



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8. Where are the gustatory and olfactory nerves to be found?



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Discuss

1. Why do we eat fruits and vegetables? Do the plants also need minerals like we do?



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2. From where do plants get inorganic substances other than carbon dioxide and oxygen?



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1. Use your brain power

Which type of plant tissues are xylem and phloem?



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2. As compared to the monsoons and winter a very small quantity of urine is produced in the summer season. Why is it so?



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3. In adults, the process of urination is under their control but not in infants. Why is it so?



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Think About It

1. Use your brain power

At least a small quantity of garbage or waste is produced every day in each house. What will

happen if you keep this garbage for many days in your house?



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2. Use your brain power

An injury to the medulla oblongata can lead to death. Why?



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1. Match the pairs and explain.

'A'	'B'
1. Growth of pollen tube towards ovule 2. Growth of shoot system 3. Growth of root system 4. Growth towards water	a. Gravitropic movement b. Chemotropic movement c. Phototropic movement d. Growth-irrelevant movement e. Hydrotropic movement



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2. The milk was on the stove. Resika was engrossed watching television. She smelled something burning. She ran towards the kitchen. The milk was boiling over. She held the vessel with her bare hands but, screaming, she let it go at once. This activity was controlled by

.....cells. Special ends ofin these cells collected the information, from where it was transferred to the..... and then towards the terminal end of the The chemicals produced at the terminal end passed through the minute space i.e. In this way, were conducted in the body and the process ofwas completed by conducting the impulses from.....to.....

(Nerve, muscle cell, impulse, dendrite, synapse, impulses, reflex action, cell body)



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3. Write short note on Root pressure.



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4. Name the hormones of the following endocrine glands and the function of each.

Pituitary, Thyroid, Adrenal, Thymus, Testis, Ovary.



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5. Sketch and label the human excretory system.



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6. Explain chemical co-ordination in humans and give the names and functions of some hormones.



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7. Distinguish between the following :

Excretory system of humans and plants.



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8. Explain co-ordinatin is plants with the help of suitable examples.



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9. Explain in your own words with suitable examples:

What is meant by coordination?



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10. How does excretion occur in human being?



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11. How is excretion in plants useful to human beings?



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12. Describe the transportation system in plants.



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