



BIOLOGY

BOOKS - NAND LAL PUBLICATION

CONTROL AND COORDINATION

Activity 7 1

1. Put some sugar in your mouth. How does taste?



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2. Block your nose. Now eat sugar again. there any difference in its taste ?



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3. While eating lunch, block your nose. Fell the taste.



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Activity 7 2

1. Have the old parts of the shoot and changed direction?



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2. Are there differences in the direction of new growth?



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3. What can we conclude from this activity.



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Activity 7 3

1. Identify the endocrine glands mentioned in figure.



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Intext Questions

1. What is the difference between a reflex action and walking ?



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2. What happens at the synapse between two neurons ?



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3. Which part of the brain maintains posture and equilibrium of the body?



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4. How do we detect the smell of an aagrbatti(Incense stick)?



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5. What is the role of the brain in reflex action?



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6. What are plant hormones? Name any two



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7. How is the movement of leaves of the sensitive plant different from the movement of a shoot towards light?



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8. Give an example of a plant hormone that promotes growth.



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9. How do auxins promote the growth of a tendril found a support?



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10. Design an experiment to demonstrate hydro tropism.



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11. How does chemical coordination take place in animals?



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12. Why is the use of iodised salt advisable?



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13. How does our body respond when adrenaline is secreted into blood?



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14. Why are some patients of diabetes treated by giving injections of insulin?



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1. Which of the following is plant hormone?

- A. Insulin
- B. Thyroxin
- C. Oestrogen
- D. Cytokinin

Answer: D



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2. The gap between two neurons is called:

A. dendrite

B. synapse

C. axon

D. impulse

Answer: B



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3. The brain is responsible for:

A. thinking

B. regulating the heartbeat

C. balancing the body

D. all of the above

Answer: D



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4. What is the function of receptors in the body? Think of situations where receptors do not work properly. What problems are likely to arise?



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5. Draw the structure of a neuron and explain its function.



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6. How does phototropism occur in plants?



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7. Which signals will get disrupted in case of spinal cord injury?



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8. How does chemical co-ordination occur in plants?





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9. What is the need for a system of control coordination in an organism?



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10. How are involuntary actions and reflex actions different from each other?



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11. Compare and contrast the nervous and hormonal mechanism for control and coordination in animals



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12. What is the difference between the manner in which movement takes place in a sensitive plant and the movement in our leg.



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Additional Questions

1. Name the systems in animals which help the process of control and coordination.



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2. Name the largest cell present in human body?



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3. Have the old parts of the shoot and root changed direction ?



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4. What are the main divisions of nervous system ?



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5. Give four examples of simple human reflexes.



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6. Design an experiment to demonstrate hydro tropism.



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