



# BIOLOGY

## NCERT - NCERT BIOLOGY(ENGLISH)

### CONTROL AND COORDINATION

#### Exercise

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 agarbatti (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?



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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 around a support?



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10. Design an experiment to demonstrate hydrotropism.



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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 the blood?



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



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15. Which of the following is a plant hormone?

A. Insulin

B. Thyroxin

C. Oestrogen

D. Cytokinin

**Answer: Cytokinin**



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**16.** The gap between two neurons is called a

A. dentrite

B. synapse

C. axon



D. impulse

**Answer: synapse**



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**17.** The brain is responsible for

A. thinking

B. regulating the heart beat

C. balancing the body.

D. all of the above

**Answer: all of the above**



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



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**19.** Draw the structure of a neuron and explain its function.



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**20.** How does phototropism occur in plants?



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**21.** Which signals will get disrupted in case of a spinal cord injury?



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**22.** How does chemical coordination occur in plants?



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**23.** What is the need for a system of control and coordination in an organism?



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



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**25.** Compare and contrast nervous and hormonal mechanisms for control and coordination in animals.



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**26.** What is the difference between the manner in which movement takes place in a sensitive plant and the movement in our legs?



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