



# BIOLOGY

## BOOKS - MBD

### CONTROL AND COORDINATION

#### Example

1. What is the difference between 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. How is the movement of leaves of the sensitive plant different from the movement of a shoot towards light?



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**9.** Give an example of a plant hormone that promotes growth.



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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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15. Which of the following is plant hormone?

A. insulin

B. thyroxin

C. oestrogen

D. cytokinin

**Answer:**



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

A. dendrite

B. synapse

C. axon



D. impulse

**Answer:**



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**17.** The brain is responsible for:

A. Thinking

B. regulating the heart beat

C. balancing

D. all of above

**Answer:**



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**18.** 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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**19.** Draw a labelled diagram of neuron and explain its function?



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**20.** Draw the structure of neuron and label the following on it, Nucleus, dendrite, cell body and axon.



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



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**22.** How does chemical co-ordination occur in plants?



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



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**24.** How are involuntary actions different from reflex action?



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**25.** Compare and contrast the nervous and hormonal mechanism 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 leg.



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**27.** Draw a well labeled diagram of the human brain and mention the functions of its various parts



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**28.** Describe the structure of spinal cord.



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**29.** What is reflex action? explain giving an example what is reflex are?



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**30.** List the components of nervous system what is a synapse? Explain what are its kinds.



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**31.** What are phytohormones? Classify the main groups



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**32.** Explain the following :Hydrotropism



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**33.** Explain the following:Thigmotropism



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**34.** Explain the following : Chemotropism



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**35.** Explain briefly the various types of plant movements



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**36.** Describe various endocrine glands.



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**37.** What are hormones? Why are they called chemical messengers? What are the general properties of hormones?



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**38.** What is phototropism?



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**39.** Write differences between nastic and tropic movements



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**40.** Why is pituitary gland called master endocrine gland?



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**41.** Name one disorder each in case of less (hypo) or excess (hyper) secretion of insulin and thyroxine.



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**42.** List four uses of auxins.



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**43.** What are the physiological effects of gibberellins?



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**44.** What are the functions of cytokinins?



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**45.** Write short notes on abscisic acid and ethylene



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**46.** Write functions of abscisic acid



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**47.** Write functions of ethylene



[Watch Video Solution](#)

**48.** What is chemotropism?



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**49.** Give examples of geotropism.



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**50.** Differentiate between hormones and enzymes.



**Watch Video Solution**



**51.** Briefly explain the autonomic nervous system



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**52.** List different parts of the human nervous system



**Watch Video Solution**

**53.** Define nerve impulse. Which structure in a neuron helps to conduct a nerve impulse,towards the cell body?



**Watch Video Solution**

**54.** Define nerve impulse. Which structure in a neuron helps to conduct a nerve impulse,towards the cell body?



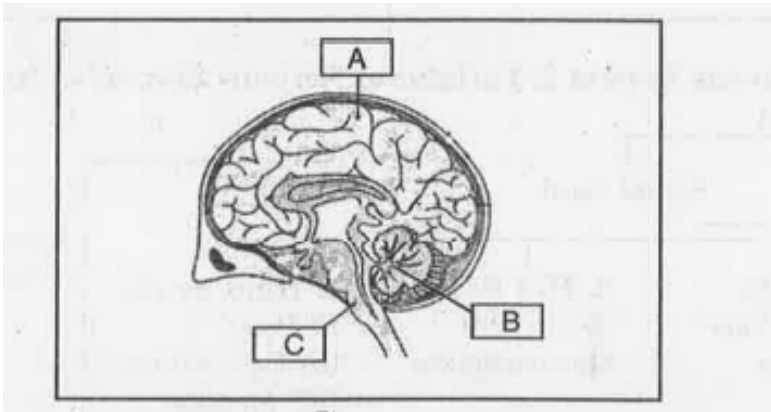
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55. Name the five major senses of man.



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56. Label the parts of human brain



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**57.** What is a gland? Name the two types of glands



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**58.** How does our body maintain blood sugar level?



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**59.** Why is pancreas a dual gland?



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**60.** List the functions of testosterone and estrogen.



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**61.** Name the hormones which stimulate the testes?



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**62.** List some of the functions of adrenal glands



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**63.** Write a note on Turgor movements.



**Watch Video Solution**

**64.** Mechanism of movements shown by mimosa pudica, if touched.





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**65.** How do phototropism differ from geotropism?



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**66.** List the major endocrine glands and state their position in the human body.



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**67.** Nervous and hormonal system together perform the function of control and co-ordination in human beings" justify the statement.



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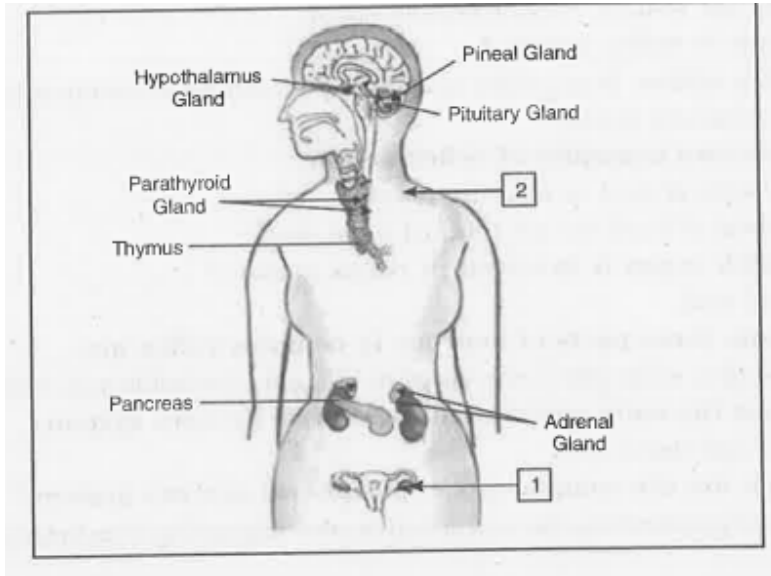
**68.** What are the general functions of hormones?



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69. Label 1 and 2 in the figure given below:



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70. Are movements in living organism is characteristic of life?



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71. Movements in plants are due to result of which kind of action?



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72. Name the structural and functional unit of nervous system.



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**73.** What is the function of dendrites?



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**74.** Name the structure of neuron which conduct impulse.



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**75.** Name the sites where electrical impulses are conducted into chemical impulses



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**76.** What is a neuron?



**Watch Video Solution**

**77.** What is synapitic cleft?



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**78.** Mention the receptors for light and sound  
in animals



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**79.** What is reflex action? explain giving an example what is reflex are?



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**80.** Give two examples of reflex action



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**81.** Which organ is involved in reflex action?



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**82.** Name three parts of neurons in complex reflex arc.



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**83.** Name the three main parts of brain



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**84.** List three involuntary actions



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**85.** Involuntary actions are controlled by which part of brain



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**86.** Cycling, walking along a straight path and picking up of pencil are controlled by which part of brain



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**87.** Name the part of brain which control balancing and voluntary movements of body.



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**88.** What is the function of cerebro spinal fluid?



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**89.** Name the structure which protects spinal cord.



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**90.** How does plant cell change its shape?



**Watch Video Solution**

**91.** What is the function of tendrill.



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**92.** Name the hormone which help in cell division.



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**93.** Name the hormone secreted by adrenal gland.



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**94.** Where is thyroxine hormone secreted?



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**95.** Name the hormone which plays role in metabolism of carbo-hydrates, proteins and

faults?



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**96.** Name the gland which secreted growth hormone?



[Watch Video Solution](#)

**97.** Name the hormones which play role in maturity during adolescence in boys and girls?



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**98.** Where is insulin secreted?



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**99.** In addition to nervous system, other system plays role in coordination.



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**100.** Name the hormone which helps in chemical coordination in plants.



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**101.** What is the main element of thyroxine hormone?



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**102.** What is the main function of the vasopressin hormone?



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**103.** Write the function of hormone thyroxine  
In our body?



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**104.** Which two systems of body work together for control and coordination of body parts?



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**105.** Which organ secretes a hormone when the blood sugar rises. Name a digestive enzyme released by this organ.



**Watch Video Solution**



**106.** Define endocrine glands



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**107.** Name the hormone which increases blood pressure and rate of heart beat.



**Watch Video Solution**

**108.** Name the female sex hormones



**Watch Video Solution**

**109.** Name the following : The cause of diabetes mellitus



**Watch Video Solution**

**110.** Name the following: The two portions of adrenal gland.



**Watch Video Solution**

**111.** Name the following : The gland which function actively in emergency situations



**Watch Video Solution**

**112.** Name the following: The hormone of pituitary that helps in child birth



**Watch Video Solution**

**113.** Name the following: The endocrine gland located on the top of kindeys?



**Watch Video Solution**

**114.** Name the following : The gland which secretes insulin



**Watch Video Solution**

**115.** Name the following : The hormone which prepares the body to meet any emergency situation



**Watch Video Solution**

**116.** Name the following : An example of the disease caused due to insufficient secretion of hormone



**Watch Video Solution**

**117.** Name the following : The gland, which produces the so called 'emergency hormone'.



**Watch Video Solution**

**118.** Name the following : Carrier of hormones from the gland to target organ.



**Watch Video Solution**

**119.** Name the following : The hormone which controls (I.e.reduces) the level of sugar in blood, and the gland which secretes it.



**Watch Video Solution**

**120.** Name the three kinds of neuron.



**Watch Video Solution**

**121.** What happens when bright light is focussed on eyes?



**Watch Video Solution**

**122.** Where are receptors located in the body?



**Watch Video Solution**

**123.** What is the function of Gustatory receptors ?





**Watch Video Solution**

**124.** Name the organs concerned with sense of smell.



**Watch Video Solution**

**125.** Which part of plant bends towards light?



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**126.** Name the largest cell present in human body?



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**127.** What are the three basic regions of the brain?



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**128.** Which part of the brain controls the heart?



**Watch Video Solution**

**129.** Name the following: Structural and functional units of the nervous system



**Watch Video Solution**

**130.** Name the following : Two type of peripheral nerves.



**Watch Video Solution**

**131.** Name the following : Most important part of the nervous system.



**Watch Video Solution**

**132.** Name the following : Three divisions of human brain.



**Watch Video Solution**

**133.** Name the following : Largest part of the brain.



**Watch Video Solution**

**134.** Name the following : Two types of matter present in brain and spinal cord.



**Watch Video Solution**

**135.** How many hormones are secreted by pituitary gland?



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136. Which of the following is not a plant hormone?

A.  $GA_3$

B. ethylene

C. Phytochrome

D. auxins

**Answer:**



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137. Cytokinins stimulate the cell for:

A. turgor

B. elongation

C. cell division

D. wall thickening

**Answer:**



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**138.** Movement in the leaf of the touch-me-not (mimosa) plant is:

A. epinasty

B. hyponasty

C. Nyctinasty

D. siesmonasty

**Answer:**



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**139.** Hydrotropism is response towards:

A. light

B. touch

C. gravity

D. water

**Answer:**



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**140.** The reflex action is:

- A. blinking of eyelid
- B. swallowing of food bolus
- C. sneezing and coughing
- D. all the above

**Answer:**



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**141.** Nerve fibres transmit the nerve message  
by means of:

A. chemical

B. physical

C. electrochemical

D. electrical

**Answer:**



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**142.** Brain and spinal cord act as:

A. receptors

B. effectors

C. modulators

D. none of these

**Answer:**



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**143.** Which of the following is not a structure  
In the hind brain?

A. medulla oblongata

B. thalamus

C. cerebellum

D. pons

**Answer:**



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**144.** Which one of the following endocrine gland produces two distinct hormones?

A. adrenal

B. thymus

C. testis

D. pineal

**Answer:**



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**145.** Fill in the blanks: The nervous system uses.....impulses to transmit messages



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**146.** Fill in the blanks: .....is the main co-ordinating centre in the body.



**Watch Video Solution**

**147.** Fill in the blanks: The movement of a part of a plant in response to light is called .....



**Watch Video Solution**



**148.** Fill in the blanks: Endocrine glands secrete.....into blood.



**Watch Video Solution**

**149.** Fill in the blanks: Insulin hormone is secreted by.....



**Watch Video Solution**

**150.** Fill in the blanks: Auxins play role in cell..... .



**Watch Video Solution**

**151.** Fill in the blanks: In human there are .....pairs of cranial nerves.



**Watch Video Solution**

**152.** Fill in the blanks: .....is the junction between two adjacent neurons



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