



BIOLOGY

BOOKS - CAMBRIDGE BIOLOGY (KANNADA ENGLISH)

CONTROL AND COORDINATION

Question

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 a sensitive plant different from the movement of a shoot towards light?



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8. Give an example for positive work.



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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 b-y giving injections of insulin ?



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Exercise

1. Which of the following is a plant hormone

A. insulin

B. thyroxin

C. oestrogen

D. cytokinin

Answer:



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2. The gap between two neurons is called a

A. dendrite

B. synapse

C. axon

D. impulse

Answer:



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3. The brain is responsible for

A. thining

B. regulating the heart beats

C. balancing the body

D. all of the above

Answer:



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4. 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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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 signal will get disrupted in case of a spinal cord injury?





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8. How does chemical coordination occur in plants?



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9. What is the need for a system of control and 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 nervous and hormonal mechanisms for control and coordination in animals



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



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Additional Questions Choose The Correct Answer

1. The plant hormone which is essential for cell division is

A. Auxin

B. Cytokin

C. Ethylene

D. Gibberellin

Answer: B



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2. The gap between neurons is called

A. Synapse

B. Axon

C. Synthesise

D. Dendron

Answer: A



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3. A potted plant is kept in a room. It starts to bend towards at the direction of light. This type of movement is known as

A. Photographism

B. Photoperiodism

C. Phototropism

D. Photocynism

Answer: C



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4. Tropic movements are

A. In response to light

B. In response to gravity

C. Non-directional

D. Unidirectional

Answer: D



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5.is a growth inhibitor hormone in plants

A. Auxin

B. Cytokinin

C. Absciscic

D. Acid

Answer: C



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6. Part of the brain that controls respiration, heartbeat and peristalsis is

A. Medulla oblongata

B. Pons

C. Cerebrum

D. Cerebellum

Answer: A



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7. The direction of impulse typical neuron is

A. Axon to dendron

B. Dendron to axon

C. Both (a) and (b)

D. None of these

Answer: B



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8. Which body organ is surrounded by meninges.

A. Brain and spinal cord

B. Brain and heart

C. Spinal cord & lungs

D. Heart and lungs

Answer: A



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9. Gustatory receptors are specialised in detecting

A. Taste

B. Light

C. Smell

D. Touch

Answer: A



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10. The center of intelligence and voluntary action in brain is

- A. Cerebellum
- B. Cerebrum
- C. Medulla oblongata
- D. Diencephalon

Answer: B



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11. Which of the following is a plant hormone

A. Thyroxin

B. Cytokinin

C. Insulin

D. Oestrogen

Answer: B



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12. Artificial ripening of fruit is carried out by

A. Auxine

B. Ethylene

C. Absciscic acid

D. Gibberellins

Answer: B



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Additional Questions Fill In The Blanks

1.is a structure associated with both nervous system.



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2. is the reflex center of the brain.



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3.is the structural and functional unit of the nervous system.



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4. An automatic response to a stimuli which is not controlled by the brain is called



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5. Chemical messengers which control and coordination in plants and animals are called

.....



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6. The movement of a plant towards the direction of light is called



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Additional Questions Answer The Following Questions

1. Why is a system of control and co-ordination essential in living organisms?



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



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3. How brain is protected inside a human body?



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4. What do you mean by reflex action? Give example of reflex action?



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5. What is reflex arc?



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6. What will happen when plant is exposed to unidirectional light?



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7. Name the hormone secreted by an endocrine gland during emergency?



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8. How does our body maintain blood sugar level?



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9. Where are adrenal glands located?



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10. Which endocrine gland is called master gland? Why?





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11. Mention the part of the body where gustatory and olfactory receptors are located?



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12. (a) Which plant hormone is present in greater concentration in the areas of rapid cell division.

(b) Give one example of a plant growth promoter and a plant growth inhibitor.



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13. Which part of the brain controls involuntary action? Write the function of any two region of it.



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14. State any three function of the structural and functional unit of nervous system.



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15. Name the hormone secreted by human testes. State its functions.



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16. Name two tissues that provide control and co-ordinate in multicellular animals?



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17. A young green plant receives sunlight from one direction only. What will happen to its shoot?



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18. Why is pancreas a dual gland?



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19. a) Name the hormones that are released in human male and female when they reach puberty.

(b)) Name a gland associated with brain.

Which problem is caused due to the deficiency of the hormone released by this gland?



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20. Write one example each of the following tropic movements?

- i) Positive phototropism
- ii) Negative phototropism
- iii) Positive geotropism
- iv) Negative geotropism
- v) Hydrotropism
- vi) Chemotropism



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21. Draw a diagram of reflex arc and label the parts.



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22. Draw a neat diagram of human brain & label it.



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Unit Test Fill In The Blanks

1. The gap between two neurons is called a



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3. The plants hormone which is essential for cell division is.....



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Unit Test Answer The Following

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2. Which endocrine gland is called master gland? Why?



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3. How do auxins promote the growth of a tendril around a support?



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4. What do you mean by reflex action? Give example.



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5. Draw a neat diagram of human brain & label it.



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6. Design an experiment to demonstrate hydrotropism.



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