



BIOLOGY

BOOKS - ICSE

HUMAN BODY: THE NERVOUS SYSTEM

Questions Correct The Following False
Statements By Changing The First Or Last Word
S

1. Receptors are organs in the body, which bring about response.



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2. Bundles of axons enclosed by a tubular sheath make the neuron.



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3. Synaptic bulb is the junction between two neurons.



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4. The cell body of neurons is called dendron.



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5. Neurons is the structural and functional unit of nervous system.



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Questions Give One Example For The Following

1. A function controlled by the cerebrum



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2. A function controlled by the medulla

oblongata -----





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3. An acquired reflex _____



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4. An inborn reflex _____



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5. An organ of nervous system _____





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Questions Observe The Figure And Answer The Questions

1. _____ is pigmented and supplied with blood vessels



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2. Name the largest and the smallest bone present in human body.



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3. _____ transmits nerve impulses from the eye to the brain



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4. Gives shape to the eyeball



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5. _____pigment is necessary for photosynthesis



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6. What holds the lens of eye in place?



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Exercises Section I Name The Following

1. Part of neuron that receives stimulus from other neuron and transmits it as impulse to cyton



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2. Membranous covering of brain



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3. The reflex centre of body



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4. Part of brain that appears like a walnut



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5. The opaque, white, tough fibrous protective coat of eye



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6. Collective term for the three bones that make up the middle ear



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7. Sense organ that is also a part of the respiratory system



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Exercises Section I Choose The Correct Option

1. Which of the following is responsible for controlling heart beat?

A. Cerebrum

B. Medulla

C. Cranial nerve

D. Cerebellum

Answer:



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2. The chemical present in synaptic bulb is

A. enzyme

B. neurotransmitter

C. hormone

D. cerebrospinal fluid

Answer:



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3. Which of the following co-ordinates muscular activity?

A. Cerebrum

B. Cerebellum

C. Medulla

D. Spinal cord

Answer:



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4. Electrical signals sent by nerve cells to different parts of the body are called

A. reflex action

B. message

C. impulse

D. reflex arc

Answer:



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5. A long projection of nerve cell arising from cyton is called

A. dendron

B. dendrite

C. axon

D. neuron

Answer:



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Exercises Section I True Or False Correct The False Statements By Changing The Last Word S Only

1. Reflex action is controlled by



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2. Cell bodies of neurons are called white matter.



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3. Motor neuron transmits message from brain to sense organs.



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4. Cerebrum is the seat for functions such as intelligence and memory.



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5. Rods are sensitive to bright light.





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Exercises Section I

1. What is the function of iris?



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Exercises Section I Choose The Odd One Out And Give Reasons For Your Choice

1. axon, gray matter, dendrite, nucleus



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2. skin, eye, kidney, nose



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3. cornea, retina, sclera, choroid



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4. hammer, anvil, pinna, stirrup



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Exercises Section I State The Exact Locations Of The Following

1. Cerebrum and Cerebellum



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2. Meninges around the brain from outer to inside are, and

.....



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3. Differentiate between : Cerebrum and Spinal cord (Arrangement of nerve cell)



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4. Q) Eustachian tube connects



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5. Melanin



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Exercises Section II Explain The Following Terms

1. Nervous System



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2. Neuron



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3. Select the correct statement regarding spinal nerves



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4. The part of internal ear responsible for hearing is



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5. Taste buds contain



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Exercises Section II Differentiate Between The Following On The Basis Of What Is Given In The Bracket

1. Response and stimulus (example)



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2. Brain and spinal cord (location)



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3. Cerebrum and Cerebellum



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4. State the function of sensory neuron and a motor neuron.



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5. Outer ear and middle ear (parts)



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Exercises Section II Give Reasons For The Following

1. Brain is the control centre of body.



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2. Give biological reasons for the following :

Injury to Medulla oblongata results in death.



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3. A person after consuming alcohol walks clumsily. Give scientific reasons.



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4. What is reflex arc? Draw a labelled diagram to show reflex arc on touching a very hot

object.



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5. It is harmful to use a sharp object for cleaning the ear.



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Exercises Section II Short Answer Questions

1. Discuss the structure of a neuron.



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2. How is brain protected?



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3. With which tissue are two cerebral hemishpheres joined together ?



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4. What is the arrangement of nerve cells in the cerebrum?



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5. Mention the three functions of spinal cord.



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6. Name the 3 layers of eye



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Exercises Section II Long Answer Questions

1. Define a nerve and explain the three different kinds.



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2. With the help of a suitable diagram, describe the structure and function of a neuron.



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3. What are the three major parts of the brain?

Write an account on them.



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4. Draw a labelled diagram of the structure of the eye.



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5. Explain the working of the inner ear.



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Picture Study

1. What is the function of eye lens?



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2. Differentiate between Tendon and ligament



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3. Which of the parts controls sight, speech, memory, and thought?



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4. State the functions of the ear.



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5. What is the function of endocrine gland?



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6. Give the name of the part that:

i. collects sound waves from the external environment



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7. Name three major parts of human ear.



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8. Name three parts of brain.



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9. Name outer parts of ear.



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10. Define the process of osmosis.



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