



BIOLOGY

BOOKS - NCERT BIOLOGY (ENGLISH)

NEURAL CONTROL AND CO- ORDINATION

Multiple Choice Questions

1. Chemicals which are released at the synaptic junction are called

A. hormones

B. neurotransmitters

C. cerebrospinal fluid

D. lymph

Answer:



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2. Potential difference across resting membrane is negatively charged. This is due to differential distribution of the following ions.

A. Na^+ and K^+ ions

B. CO_3^{2-} and Cl^- ions

C. Ca^{+4} and Cl^- ions

D. Ca^{+4} and Cl^- ions

Answer:



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3. Resting membrane potential is maintained
by

A. hormones

B. neurotransmitters

C. ion pumps

D. None of these

Answer:



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4. The function of our visceral organs is controlled by

- A. sympathetic and somatic neural system
- B. sympathetic and parasympathetic neural system
- C. central and somatic nervous system
- D. None of these

Answer:



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5. Which of the following is not involved in knee-jerk reflex ?

A. Muscle spindle

B. Motor neuron

C. Brain

D. Inter neurons

Answer:



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6. An area in the brain which is associated with strong emotion is

A. cerebral cortex

B. cerebellum

C. limbic system

D. medulla

Answer:



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7. Mark the vitamin present in rhodopsin

A. vit-A

B. vit-B

C. vit-C

D. vit-D

Answer:



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8. Human eye ball consists of three layers and it encloses

A. lens, iris, optic nerve

B. lens, aqueous humor and vitreous humor

C. cornea, lens, iris

D. cornea, lens, optic nerve Ans

Answer:



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9. Wax gland present in the ear canal is called

A. sweat gland

B. prostate gland

C. Cowper's gland

D. sebaceous gland/ceruminous gland

Answer:



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10. The part of internal ear responsible for hearing is

A. cochlea

B. semicircular canal

C. utricle

D. sacculus

Answer:



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11. The organ of Corti is a structure present in

- A. external ear
- B. middle ear
- C. semi circular canal
- D. cochlea

Answer:



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Very Short Answer Type Questions

1. Rearrange the following in the correct order of involvement in electrical impulse movement

.



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2. Comment upon the role of ear in maintaining the balance of the body and posture.



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3. Which cells of the retina enable us to see coloured objects around us?



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4. Arrange the following in the order of reception and transmission of sound wave from the ear drum. Cochlear nerve, external auditory canal, ear drum, stapes, incus, malleus, cochlea.



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5. During resting potential the axonal membrane is polarisation diagrammatically. Movement of $+ve$ and $-ve$ ions lending to polarisation diagrammatically.



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6. Name the structures involved in the protection of the brain.



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7. Our reaction like aggressive behaviour, use of abusive words, restlessness etc. are regulated by brain, name the parts involved.



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8. What do grey and white matter in the brains represent ?



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9. Where is the hunger centre located in human brain?



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10. While travelling at a higher altitude, a person complains of dizziness and vomiting sensation. Which part of the inner ear is disturbed during the journey ?



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11. Complete the statement by choosing appropriate match among the following .



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Short Answer Type Questions

1. The major parts of the human neural system is depicted below. Fill in the empty boxes with appropriate words.





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2. What is the difference between electrical transmission and chemical transmission ?



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3. Neuron system and computers shares certain common features. Comment in five lines,.



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4. If someone receives a blow on the back of neck, what would be the effect on the person's CNS?



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5. What are the functions described to Eustachian tube?



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6. Label the following parts in the given diagram using arrow.

(a) Aqueous chamber .

(b) Cornea.

(c) Lens

(d) Retina.

(e) Vitreous chamber.

(f) Blind spot



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1. Explain the process of the transport and release of a neurotransmitter with the help of a labelled diagram showing a complete neuron, axon terminal and synapse.



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2. Name the parts of human forebrain indicating their respective functions.



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3. Explain the structure of the middle and internal ear with the help of diagram .



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