

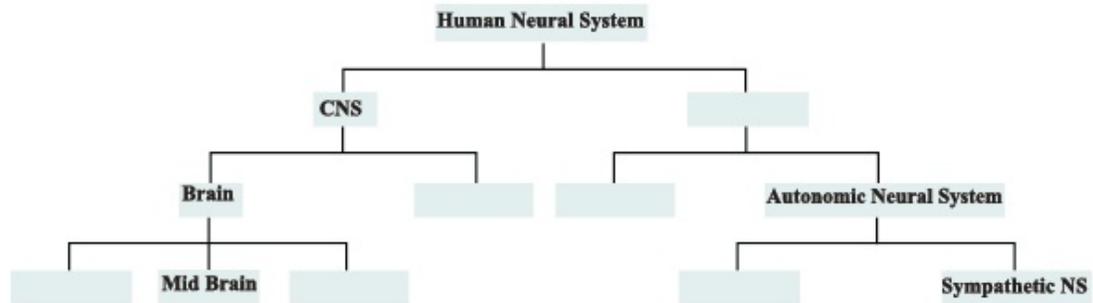
Neural Control & Coordination

Very Short Answer Type Questions

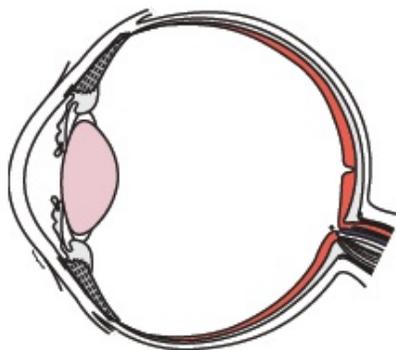
- Rearrange the following in the correct order of involvement in electrical impulse movement-
Synaptic knob, dendrites, cell body, Axon terminal, Axon
- Comment upon the role of ear in maintaining the balance of the body and posture.
- Which cells of the retina enable us to see coloured objects around us?
- 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.
- During resting potential, the axonal membrane is polarised, indicate the movement of +ve and -ve ions leading to polarisation diagrammatically.
- Name the structures involved in the protection of the brain.
- Our reaction like aggressive behaviour, use of abusive words, restlessness etc. are regulated by brain, name the parts involved.
- What do grey and white matter in the brain represent?
- Where is the hunger centre located in human brain?
- Which sensory organ is involved in vertigo (sensation of oneself or objects spinning around)?
- 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?
- Complete the statement by choosing appropriate match among the following –
 - Resting potential
 - Nerve impulse
 - Synaptic cleft
 - Neurotransmitters
 - chemicals involved in the transmission of impulses at synapses.
 - gap between the pre synaptic and post synaptic neurons
 - electrical potential difference across the resting neural membrane
 - an electrical wave like response of a neuron to a stimulation.

Short Answer Type Questions

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



2. What is the difference between electrical transmission and chemical transmission?
3. Neural system and computers share certain common features. Comment in five lines.
(Hint: CPU, input-output devices).
4. If someone receives a blow on the back of neck, what would be the effect on the person's CNS?
5. What is the function ascribed to Eustachian tube?
6. Label the following parts in the given diagram using arrow.



- o a. Aqueous chamber
- o b. Cornea
- o c. Lens

- d. Retina
- e. Vitreous chamber
- f. Blind spot

Long Answer Type Questions

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.
2. Name the parts of human forebrain indicating their respective functions.
3. Explain the structure of middle and internal ear with the help of diagram.