

Board – ICSE

Class- 8

Topic – NERVOUS SYSTEM

- Name the following :
  - Transfers impulses from inner ear to brain.
  - The part of brain which is concerned with memory.
  - The protective covering of the brain.
  - The junction between two nerve cells.
  - The fluid that is present inside and outside the brain.
  - Protective covering of the brain and spinal cord.
- Write true or false. Insert a word if false.
  - A reflex action is a spontaneous response to a stimulus.
- Define – Synapses.
- Choose :

The dorsal root ganglion of the spinal cord contains cell bodies of (motor, sensory, intermediate) neurons.
- Write the structural and functional activity of :
  - Cerebellum.
  - Myelin sheath.
  - Meninges.
- Write the function of Medulla oblongata.
- Write in logical sequence:

Dorsal root ganglion, receptor, effector, ventral root ganglion, associated neuron.
- Differentiate between :
  - Medulla oblongata and Cerebellum.
  - Cerebrum and spinal cord.
  - Cerebrum and Cerebellum.
  - Sensory and motor neuron.
  - Sensory and motor nerve.
- Write the category and the odd one out :
  - Coughing, sneezing, blinking, eating.
  - Corpus luteum, corpus callosum, pons, cerebellum.
  - Pleura, pericardium, meninges, spinal cord.

(iv) Pons, cerebellum, medulla oblongata, cerebrum.

10. Answer briefly :

(i) What is meant by reflex action?

(ii) State simple, conditioned reflexes or none.

Sneezing, blushing, contraction of pupil, lifting up a book, knitting without looking, sudden application of brakes without thinking.

11. Draw a labeled diagram of a myelinated neuron.

12. The following diagram is that of a human brain. Guidelines 1 to 5 indicate different parts of the surface of the brain and these are as follows:

Label the parts 1, 2, 3, 4, 5, 6.

Study the diagram and answer the following questions:

a) What handicaps would result from :

(i) Damage to part numbered 3?

(ii) Damage the part numbered 4?

b) Mention one main function of each of the parts numbered 1, 2 and 5.

