

QB365

Important Questions - Control and Coordination

10th Standard CBSE

Science

Reg.No. :

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Time : 01:00:00 Hrs

Total Marks : 50

**Section - A**

- 1) Which of the following statement is correct about receptors? 1
  - (a) Gustatory receptors detect taste while olfactory receptors detect smell
  - (b) Both gustatory and olfactory receptors detect smell
  - (c) Auditory receptors detect smell and olfactory receptors detect taste
  - (d) Olfactory receptors detect taste and gustatory receptors smell
- 2) In a neuron, conversion of electrical signal to a chemical signal occurs at/in 1
  - (a) Cell body (b) Axonal end (c) Dendritic end (d) Axon
- 3) Posture and balance of the body is controlled by 1
  - (a) Cerebrum (b) Cerebellum (c) Medulla (d) Pons
- 4) The movement of sunflower in accordance with the path of sun is due to 1
  - (a) Phototropism (b) Geotropism (c) Chemotropism (d) Hydrotropism
- 5) The substance that triggers the fall of mature leaves and fruits from plants is due to 1
  - (a) Auxin (b) Gibberellin (c) Abscissic acid (d) Cytokinin
- 6) Involuntary actions in the body are controlled by 1
  - (a) Medulla in forebrain (b) Medulla in midbrain (c) Medulla in hindbrain (d) Medulla in spinal cord
- 7) Which statement is not true about thyroxin? 1
  - (a) Iron is essential for the synthesis of thyroxin
  - (b) It regulates carbohydrates, protein and fat metabolism in the body
  - (c) Thyroid gland require iodine to synthesise thyroxin (d) Thyroxin is also called thyroid hormone
- 8) Junction between two neurons is called 1
  - (a) Cell junction (b) Neuro muscular junction (c) Neural joint (d) Synapse
- 9) Name the largest cell in the human body. 1
- 10) Which part of the brain is concerned with memory? 1

**Section - B**

- 11) What is the role of the brain in reflex action? 2
- 12) How does our body respond when adrenaline is secreted into the blood? 2
- 13) What is the difference between the manner in which movement takes place in a sensitive plant and the movement in our legs? 2

- 14) What is photoperiodism? 2
- 15) What happens at the synapse between two neurons? 2
- 16) Differentiate between tropic and nastic movements in plants. Give one example of each. 2
- 17) Name the three major regions of the human brain. Which part of the brain maintains posture and equilibrium of the body? 2
- 18) Draw a diagram of human brain and label on it the following of its parts: 2
- (i) Cerebrum
  - (ii) Meninges
  - (iii) Medulla Oblongata
  - (iv) Cerebellum
- 19) What are hormones? State one function of each of the following hormone 2
- (i) Thyroxin
  - (ii) Insulin.
- 20) Distinguish between voluntary and involuntary actions of our body. 2

**Section - C**

- 21) Mention one function for each of these hormones: 5
- (a) Thyroxin
  - (b) Insulin
  - (c) Adrenaline
  - (d) Growth hormone
  - (e) Testosterone
- 22) Name various plant hormones. Also give their physiological effects on plant growth and development. 5
- 23) "Nervous and hormonal system together perform the function of control and coordination in human beings." 5  
Justify the statement.
- 24) How does chemical coordination take place in animals? 5

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