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SECTION - A

Q.1. Name the plant hormone:

- (a) which inhibits growth and causes wilting of leaves.**
- (b) which promotes cell division.**

Q.2. The brain is responsible for

- (a) thinking**
- (b) regulating the heart beat.**
- (c) balancing the body**
- (d) all of above**

Q.3. The gap between two neuron is called a

- (a) Dendrite**
- (b) synapse**
- (c) axon**
- (d) impulse**

Q.4. The substance that result into the fall of mature leave and fruits from plants is due to :

- (a) auxin**
- (b) gibberllin**
- (c) ABA**
- (d) cytokinin**

Q. 5. Which one of the following is a nastic movement in plants?

- (a) Bending of plants towards light**
- (b) Growing of roots towards gravity.**
- (c) Dropping of touch – me – not leaflets on touch**
- (d) Movement of pollen tubes towards chemicals.**

Q.6. The neurons that carry nerve impulse from spinal cord to effectors are called –

- (a) Sensory neurons**
- (b) motor neurons**
- (c) Inteneurons**
- (d) spinal neurons**

Q.7. Dwarfism results by –

- (a) Excess secretion of thyroxin**
- (b) Less secretion of growth hormone**
- (c) less secretion of adrenaline**
- (d) Excess secretion of growth hormone.**

Q.8. Which one of the endocrine glands is known as master gland?

- (a) Pituitary**
- (b) Adrenal**
- (c) Thyroid**
- (d) Parathyroid**

Q.9. The brain is lodged inside the cavity of skull known as :

- (a) Piamater**
- (b) Duramater**
- (c) Cranium**
- (d) Meninges**

Q.10. Which of the following is a plant hormone?

- (a) Insulin**
- (b) Thyroxin**
- (c) Oestrogen**
- (d) Cytokinin**

SECTION – B

Q.11. There is a polled plant in your drawing room, after few days you note that plant has bent to one side. What could be the reason? How has this movement been coordinated?

Q.12. Why do leaves drop off seasonally?

Q.13. How is the movement of leaves of the sensitive plant different from the movement of a shoot towards light?

Q.14. Name two activities which are regulated by plant pigments.

Q.15. Name any two heterocrine glands and mention their function.

Q. 16. How following is affected in plants by various hormones?

Q.17. How endocrine glands do helps in maintaining feedback control?

SECTION- C

Q.18. Give a reason to explain why

(a) adrenaline helps in dealing emergency situations?

(b) secretions of growth hormone should be specific in the human body?

Q.19. What is the difference between the manner in which movement's takes place in a sensitive plant and movement in our legs?

Q.20. Which signals will get disrupted in case of a spinal cord injury?

Q.21. Design an experiment to demonstrate hydrotropism.

Q.22. Nervous and hormonal system together performs the functions of control and co – ordination in human beings. Justify the statement.

Q.23. You have touched a hot object. Represent diagrammatically the path that leads to a response, i.e. quickly pulling back the hand.

Q.24. How does chemical co-ordination takes place in animals. Mention their function.

SECTION – D

Q.25. Draw the structure of a neuron and explain its function.

Q.26. Describe Nervous system in humans.

Q.27. Design an experiment to demonstrate hydrotropism.

**Q.28. (a) what are hormones?
(b) list four characteristics of hormones**

Q.29. Mention one function for each of these hormones.

- i) Thyroxine**
- ii) Insulin**
- iii) Adrenaline**
- iv) Growth hormone**
- v) Testosterone.**

Q.30. Compare nervous and hormonal mechanism for control



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