

Chapter- 7. CONTROL AND COORDINATION.

Section A (One-mark questions)

1. What is a neuron?
2. Name any two types of tropism.
3. What is a phytohormone? Name any two phytohormones.
4. Mention the receptors for light and sound in animals.
5. How does control and coordination takes place in plants?
6. Mention the names of various phytohormones.
7. Discuss phototropism.
8. Differentiate between tropic and nastic movements.
9. Draw the diagram of a neuron.
10. Draw a neat diagram of the nervous system in an insect.
11. Describe the central nervous system in human beings.
12. Write the functions of any one part of the hind – brain.
13. What is the autonomic nervous system?
14. Define reflex action with suitable examples.
15. Name the hormones secreted by thyroid, parathyroid and pancreas. Reaction of stimuli is a characteristic property of living organisms. Explain
16. It usually takes lot of time to observe the effect of a stimulus on plants. Explain
17. Why is control and coordination system necessary in organisms?
18. What is homeostasis?
19. Give examples of some of the movements shown by plants.
20. What are growth regulators?
21. What are the stages of growth in plants?
22. Name the different phytohormones.
23. What are auxins?
24. Give four major functions of auxins.

Section B (Two marks questions)

25. Write Four major types of plant hormones and their functions
26. How does tropism helps in movement?
27. Why does the stem of a plant bend to one direction?
28. Explain the bending of plant root away from light by the action of auxin hormones
29. Give an example of chemotropism? With the help of diagram
30. Roots can grow against the law of gravity. When does this happen?
31. Definition and Function of thigmotropism
32. Why do flowers open their petals in morning and close them in evening

33. Name the Scientific terms for Bending of shoot towards sunlight
34. Name the Scientific terms for Growing of root towards the earth
35. Name the Scientific terms for Growth of a pollen tube towards ovule
36. Name the Scientific terms for Bending of root towards water
37. Name the Scientific terms for Winding of tendril around a support
38. What is Receptor and write its role
39. Explain the Function of Human nervous system
40. Explain the function of electrical impulses
41. Draw the diagram of neuron and explain its function
42. How are messages transferred from one neuron to another?
43. Name the Gap between two neurons
44. Explain the types of peripheral nervous system. In a reflex action, we are unaware that anything is going to happen to us. Explain
45. Explain the Diagram of reflex arc with its details
46. How effectors cause action
47. What is Self governing nervous system and write its function
48. What are the Functions of central nervous system?
49. Brain is the highest coordinating centre in the body. Explain

Section C (Three marks questions)

50. Explain the Function of different part of brain.
51. How is all the voluntary action of body coordinated by cerebrum?
52. What are Animal hormones and write its functions
53. Hormones are kind of chemical messengers. Explain
54. Name all glands in our body having both exocrine and endocrine functions?
55. What is hormonal system? Position of endocrine glands in human body.
56. Explain the Functions of all glands in our body

57. What are the two main centers for the coordination of two systems?
58. What all can happens if the pituitary glands do not function properly
59. How hormones help in coordinated growth?
60. Write the Sense organs of our body
61. Is walking different from reflex action
62. What do you understand by CNS? Explain
63. Draw Flow chart to show the classification of nervous system into various parts
64. What is synapse? What happens at the synapse between two neurons? How are the messages carried?
65. Who detects smell and taste in our body?
66. Why does the food taste different when you nose is blocked?
67. Explain Insulin and diabetes.
68. Draw and mark Location of all glands in the human body
69. Write the Function of thyroxin hormone
70. Name one hormone found in male
71. Write the Function of hypothalamus, pituitary gland and cerebrum
72. Explain the Main thinking part of brain
73. Explain the Parts covered under hind brain
74. Name the part which control blood pressure, salivation and vomiting control
75. What do you understand by the term reflex arc
76. Write the Function of gustatory receptor
77. Write an essay on reflex action

Section D (five marks questions)

78. Draw a diagram of nervous system of an insect. Label the following parts: Brain, Ganglion, and Nerve Chord.
79. Which is the structural and functional unit of nervous system? Describe with the help of a diagram.
80. "Nervous and the hormonal system together perform the function of the control and coordination in the humans". Justify.
81. What are the different types of nervous systems found in human body? Mention the functions of each.
- 82 Write the effects of sympathetic and parasympathetic nervous system on the

following: a. Heart b. Blood Vessels c. Bronchi d. Eyes e. Gastric Bladder

83. Draw the schematic diagram of reflex arc. Define reflex action with suitable example.

84. If the parasympathetic nervous system causes constriction of pupil what will be the effect of sympathetic nervous system.

85. Brain:

- 1). Draw the labeled structure of human brain.
- 2). What are the four main parts of the fore brain? Give the function of each part.
- 3). What are the three parts of the mid brain and their functions?
- 4). Which part of the human brain is responsible for: Intelligence and Memory, Adjustment movement and Posture, Smell?
- 5). Give the role of Frontal lobe, temporal, lobe and medulla oblongata.
- 6). Name the different lobes found in the fore brain and give their functions.
- 7). What is EEG? What is the use of an EEG? Which radiation do they measure?

86. What are the major parts of the brain? Mention the functions of different parts.

87. What constitutes the central and peripheral nervous systems? How are the components of central nervous system protected?

88. Mention one function for each of these hormones

- : (a) Thyroxin
(b) Insulin
(c) Adrenaline
(d) Growth hormone
(e) Testosterone.

89. Name various plant hormones. Also give their physiological effects on plant growth and development.

90. What are reflex actions? Give two examples. Explain a reflex arc.

91. "Nervous and hormonal systems together perform the function of control and coordination in human beings." Justify the statement.

92. How does chemical coordination take place in animals?

93. Why is the flow of signals in a synapse from axonal end of one neuron to dendritic end of another neuron but not the reverse?

