

Chapter- 7

Control and coordination.

**Sub-** What is coordination, what is stimuli, what is animal nervous system. Structural and functional unit of nervous system., Transmission of nerve impulse.

**Period-1.**

**Level-1**

**1 Mark Questions**

**Easy-Very Short Answers**

1. What is a neuron?
2. What happens at the synapse between two neurons?
3. What is Receptor and write its role



4. Explain the Function of Human nervous system
5. Name the Gap between two neurons

**Level-2**

**2 Marks Questions**

**Medium**

1. Draw the diagram of a neuron.
2. Why is a system of control and coordination essential in living organisms?
3. Why is the response of a plant to a stimulus not observed immediately?
4. Explain the function of electrical impulses

**Level-3**

**3 Marks Questions**

1. Draw a diagram of nervous system of an insect. Label the following parts: Brain, Ganglion, and Nerve Chord.
2. Which is the structural and functional unit of nervous system? Describe with the help of a

diagram.

3. "Nervous and the hormonal system together perform the function of the control and coordination in the humans". Justify.

4. Draw the diagram of neuron and explain its function



5. How are messages transferred from one neuron to another?

**Level-4**

**5 Marks Questions**

**HOTS Questions**

1. How does chemical coordination take place in animals?
2. 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?
3. What are the three divisions of the human nervous system?
4. What is the central nervous system composed of?
5. How are organs of the central nervous system protected?

**Period-2.**

**Sub- Spinal cord, Reflex Action, Reflex arc**

**Level-1**

**1 Mark Questions**

---

**Easy-Very Short Answers**

1. What is a reflex?
2. What is a synapse?



3. What are the three types of nerves?
4. What are receptors?
5. What are effectors?

**Level-2**

**2 Marks Questions**

---

**Medium**

1. What are the two main types of reflexes? Give one example for each.
2. Name the basic components of a reflex arc.
3. Which signals will get disrupted in case of a spinal cord injury?

**Level-3**

**3 Marks Questions**

---

1. What is the role of the brain in reflex action?
2. What do you mean by reflex action? Give examples of reflex actions?
3. What are the different types of reflexes?

4. What is reflex arc?

Level-4

5 Marks Questions

HOTS Questions

1. What is the difference between a reflex action and walking?
2. What is the role of the brain in reflex action?
3. How are involuntary actions and reflex actions different from each other?



**Control and coordination**

**Period-3.**

**Sub-** Human Nervous System, Protection of brain and spinal cord, Brain structure, Forebrain and its function Brain and its function, Hind Brain and its function

**Level-1**

**1 Mark Questions**

---

**Easy-Very Short Answers**

1. List the functions performed by Cerebrum.



2. Which is the largest and most prominent part of the brain.

3. What are the functions of cerebellum?

4. How brain is protected inside a human body?

**Level-2**

**2 Marks Questions**

---

**Medium**

1. What is the role of Medulla?

2. What is the function of pons?

3. What is the function of fore brain?

**Level-3**

**3 Marks Questions**

---

- 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?

Level-4

5 Marks Questions

---

**HOTS Questions**

1. Give the role of Frontal lobe, temporal, lobe and medulla oblongata.
2. Name the different lobes found in the fore brain and give their functions.
3. What is EEG? What is the use of an EEG? Which radiation do they measure?



Chapter- 7  
Control and coordination

**Period-4**

**Sub-** Anterior pituitary- GH,PRLH,TSH,ACTH,FSH,LH,Posterior pituitary -VP OR ADH, OT, intermediate pituitary-MSH,Feedback Mechanism, Explain with the help of an example or define feedback mechanism.

**Level-1**

**1 Mark Questions**

**Easy-Very Short Answers**

1. How does our body maintain blood sugar level?
2. Where adrenal glands are located?
3. What is hyperglycemia?

4. Where thyroid gland is located?
5. Why is pancreas a dual gland?

**Level-2**

**2 Marks Questions**

**Medium**

- 1.Which endocrine gland is called master gland? Why?
- 2.what is the site of action of a hormone called?

- 3.what do you understand by neuroendocrine system?



4. what are the secretions of endocrine called?

**Level-3**

**3 Marks Questions**

---

1. How does adrenaline affects heart during emergency?
2. How does our body respond when adrenaline is secreted into the blood?
3. Which hormone is injected to a diabetic patient and why?
4. Why are some patients of diabetes treated by giving injections of insulin?

**Level-4**

**5 Marks Questions**

---

**HOTS Questions**

1. Who coined the term hormone?



2. What will happen if intake of iodine in our diet is low?
3. Why is the use of iodized salt advised?
4. Name the hormone secreted by an endocrine gland during emergency? Name the gland which secretes this hormone.





**Control and coordination**

**Period-5**

**Sub- Coordination in plants-Immediate Responseto Stimulus, Nastic movement, Photonastic movement, Thermonastic movement, Seismonastic movement,Nyctinastic movements**

**Level-1**

**1 Mark Questions**

**Easy-Very Short Answers**

- 1.Name any growth inhibiting phytohormone.
- 2.What makes a stem bend towards sunlight?



- 3.Name the Scientific terms for Winding of tendril around a support

**Level-2**

**2 Marks Questions**

**Medium**

- 1.Difference between dormancy and breaking of dormancy
2. Write Four major types of plant hormones and their functions
3. How does tropism helps in movement?
4. Why does the stem of a plant bend to one direction?
5. Explain the bending of plant root away from light by the action of auxin hormones

**Level-3****3 Marks Questions**

---

1. Give an example of chemotropism? With the help of diagram
2. Roots can grow against the law of gravity. When does this happen?
3. Definition and Function of thigmotropism



4. Why do flowers open their petals in morning and close them in evening

**Level-4****5 Marks Questions**

---

**HOTS Questions**

1. Name the Scientific terms for Bending of shoot towards sunlight
2. Name the Scientific terms for Growing of root towards the earth
3. Name the Scientific terms for Growth of a pollen tube towards ovule
4. Name the Scientific terms for Bending of root towards water

**Control and coordination**

**Period-6**

**Sub- Coordination in plants-Movement Due to Growth,Phototropism,Geotropism,Chemotropism,Hydrotropism,Phytohormone,Auxins, Gibberellins,Cytokinins,Absciscic acid,Ethene**

**Level-1**

**1 Mark Questions**

---

**Easy-Very Short Answers**

1. What are hormones?

1. What are phytohormones?



2. Name any two phytohormones, which are growth promoters.

3. Name any growth inhibiting phytohormone.

**Level-2**

**2 Marks Questions**

---

**Medium**

1. What will happen when plant is exposed to unidirectional light?

2. What is chemotropism?

3. Give examples of geotropism.

**Level-3****3 Marks Questions**

---

1. Name the two substances which are responsible for the control and coordination in plants.
2. What is the function of Gibberellins, Ethene and Auxins?
3. What are Phytohormones? Name any two.

**Level-4****5 Marks Questions**

---

**HOTS Questions**

1. What are the different Hormones found in Plants and their functions?
2. How does the growth of auxins promote the growth of a tendril around a support.

