



**INDIAN SCHOOL DARSAIT  
DEPARTMENT OF SCIENCE**



**Subject :** Biology

**Topic :** CONTROL AND COORDINATION

**Resource Person:** Ms.Haseena Begum

**Date of the worksheet:**17-8-17

**Name of the Student :** \_\_\_\_\_

**Class & Division :** X\_\_

**Roll Number :** \_\_

1. Which part of the brain maintains posture and equilibrium of the body? 1
2. State the main function of abscisic acid in plants. 1
3. Name the plant hormones responsible for elongation of cells. 1
4. Site an example to explain feedback mechanism for regulation of hormonal secretion. 2
5. Name the hormone secreted by thyroid gland. Write its function. 2
6. Draw a neat diagram to show structure of neuron and label on it the following :  
cell body, axon, dendrite 3
7. Explain how the human body responds when adrenalin is secreted into blood. 3
8. What is a reflex arc? What are the components of a reflex arc? 3
9. List the names of hormones secreted by the following endocrine glands and mention their functions. 3  
( i ) Pituitary gland      ( ii ) Adrenal Gland
10. (a) Which hormone is secreted when growing plants detect light? 3  
(b) Why do plants appear to bend towards light ?
11. List the names of hormones secreted by the following endocrine glands and mention their functions. 3  
( i ) Pituitary gland      ( ii ) Adrenal Gland

12. Name various plant hormones. Give one function of each. 5
13. (a) Name the hormone which is injected to a diabetic patient. 5  
 (b) Why should we use iodised salt in our diet?  
 (c) If iodine is insufficient in one's diet, what might be the deficiency disease and its symptoms?
14. (i) Differentiate between sensory neurons and motor neurons. 5  
 (ii) How is brain protected in our body?  
 (iii) Name the part of the brain responsible for precision of voluntary actions and maintaining body posture and balance of the body.

**KEY POINTS:**

✍ **NERVOUS SYSTEM**

Stimulus    Receptor organ    Sensory nerve    Brain/Spinal cord

Response    Effector organ    Motor nerve

✍ **ENDOCRINE SYSTEM**

Stimulus    Endocrine organ    Secrete hormone    Hormone in blood

Response    Target organ

✍ **PASSING OF INFORMATION TAKES PLACE –**

- (i) By Electric impulse (inside the neuron)  
 (ii) In the form of chemicals (At synapse)

✍ **TROPIC MOVEMENTS**- The movements of plants in the direction of stimulus (positive) or away from it (negative) are called tropic movements. E.g. Phototropism, Geotropism, Chemotropism.

✍ **NASTIC MOVEMENTS** -The movements of plants independent of stimuli are called nastic movements. E.g.- Touch me not plant leaves close when touched.