

3. Chemical Messages For Homeostasis

Class 10 Biology

1. Analyse the relationships and fill in the blanks :

a). Islets of Langerhans : α cells : Glucagon ;
Islets of Langerhans :?..... :

b). Hypothalamus : Releasing hormone,
----- ?----- : Inhibitory hormone.

2. Choose the odd one from the brackets. Justify your answer.

[Testosterone, Gibberellin, Progesterone, Somatotropin]

3. Find out the incorrect pair and correct it.

- a). Thyroxine – Youth hormone.
- b). Testosterone – Sex hormone.
- c). Absciscic acid – Plant hormone.
- d). Civeton – Pheromone.

4. Find out the hormonal disorders from the following hints :

- a). Insulin injection, diet control.
- b). Iodized salt, Leafy vegetables, sea food items.

5. Elucidate the reason :

- a). Production of urine decreases during summer season.
- b). Pineal gland is also known as the ‘biological clock’ of the body.
- c). Ants can follow their members along the same path.
- d). Endocrine glands are called as the ‘ductless glands’.

6. TSH, GTH, ACTH are certain hormones seen in the human body.

- a). What is the common name of these hormones ?
- b). Name the endocrine gland from which the above hormones are secreted.
- c). What is the role of GTH ?

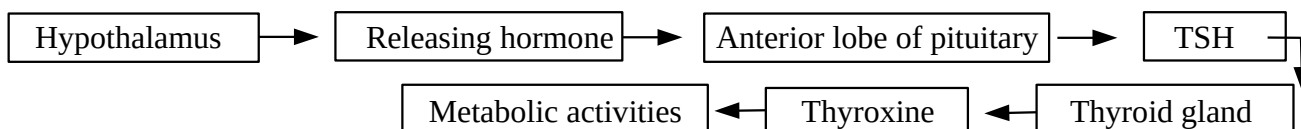
7. Replace the underlined part with right word as answer :

- a). The plant hormone cytokinin is in gaseous form.
- b). The normal rate of glucose in our blood is $9-11\text{mg}/100\text{ml}$.

8. Compare between :

- a). Diabetes mellitus and Diabetes insipidus.
- b). Gigantism and Acromegaly.

9. Make a brief note on the given flow-chart :

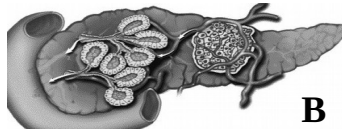


10. Mention any two uses of artificial plant hormones in the field of agriculture.

11. ‘Both the under secretion and over secretion of the hormone thyroxine affect the functions of our body’.

Justify this statement with two examples.

12. a). Identify and name the glands **A** and **B**.
 b). Choose the gland which secretes the hormone, glucagon.



13. Suitably pair the items of column **A** with that of **B**.

A	B
a). Civetone	Musk deer
b). Muscone	Silk worm moth
c). Bombycol	Civet cat

14. Choose the right answers from the box :

Parathormone, Thymosine,
 Insulin, Cortisol,
 Aldosterone, Vasopressin,
 Calcitonin, Glucagon

- a. Choose the 'Anti diuretic hormone'.?
 b. The two hormones which regulate the level of calcium in the blood.
 c. Which are the hormones for blood glucose level ?
 d. Hormone, used to prevent allergy and inflammation.

15. Complete the following table of plant hormones.

Phytohormone	Action	
----- ? -----	Growth of terminal bud.	Cell growth
Ethylene	----- ? -----	Ripening of leaves.
Gibberellin	Sprouting of leaves	----- ? -----
----- ? -----	Dormancy of embryo in the seed	----- ? -----