

Time : 1 hour 15 Minute

STD 11 Science Biology
chapter Based Test

Total Marks : 40

SECTION A

* Choose The Right Answer From The Given Options.[1 Marks Each] [6]

1. Secretion of pancreas and gall bladder is influenced by which hormone?
(A) Gastrin. (B) Secretin.
(C) Cholecystokinin. (D) Gastric Inhibitory Peptide.
2. Toxic agents present in food which interfere with thyroxine synthesis lead to the development of:
(A) Toxic goitre. (B) Cretinism.
(C) Simple goitre. (D) Thyrotoxicosis.
3. Leydig cells produce a group of hormones called:
(A) Androgens. (B) Estrogens.
(C) Aldosterone. (D) Gonadotropins.
4. Which one of the following pairs is incorrectly matched?
(A) Glucagon - Beta cells (source).
(B) Somatostatin - Delta cells (source).
(C) Corpus luteum - Relaxin (secretion).
(D) Insulin - Diabetes mellitus (disease).
5. The blood calcium level is lowered by the deficiency of:
(A) Thyroxine. (B) Both calcitonin and parathormone.
(C) Calcitonin. (D) Parathormone.
6. T-cells are lymphocytes, which produce the cellular immunity. These are developed from:
(A) Thymus (B) Liver
(C) Spleen (D) Endothelium of blood vessels

* Answer The Following Questions In One Sentence.[1 Marks Each] [5]

7. Give example of:
Hypercalcemic hormone.
8. List the hormones secreted by the following:
Thymus.
9. Which hormonal deficiency is responsible for the following:
Cretinism.
10. Name the hormone that helps in cell-mediated immunity.

11. Which hormones are secreted by the thyroid gland?

SECTION B

* Given Section consists of questions of 2 marks each.

[10]

1. The immune response of old persons becomes weak. Which endocrine gland is responsible for this? Name the hormone secreted by this gland and state the role of hormone in maintaining the immune system?
2. In countries where dietary intake of iodine is low, goitres, enlargement of the thyroid are common. What would you say about the chain of events leading to formation of goitre?
3. Comment 'hormones are called informational molecules'.
4. Name two gonadotropins secreted by the anterior pituitary. Why are they called so?
5. Name any two hormones which produce second messengers to bring about the physiological effects in the target tissue.

SECTION C

* Given Section consists of questions of 3 marks each.

[9]

1. What are the effects of hypothyroidism (observed during pregnancy) on the development and maturation of a growing baby?
2. Explain how hypothalamus functions as an endocrine gland?
3. Which hormones are secreted by the posterior pituitary gland? What function does each serve? Where are these hormones actually produced? How are these hormones transported to the region from where they are released?

SECTION E

* Given Section consists of questions of 5 marks each.

[10]

1. Bring out the differences between the mechanism of action of a protein hormone and a steroid hormone in the human body, along with illustrations.
2. Explain the following by giving scientific reasons:
 - I. Hypothalamus and pituitary function as an integrated and coordinated system.
 - II. Body growth is greatly accelerated at puberty in males.

॥ ज्ञानं एव श्रमस्य पुंजः ॥