

Chemical Coordination and Integration

- * 1. Define the following:
- Exocrine gland
 - Endocrine gland
 - Hormone
2. Diagrammatically indicate the location of the various endocrine glands in our body.
3. List the hormones secreted by the following:
- | | | | |
|------------------|---------------|-------------|-----------------|
| (a) Hypothalamus | (b) Pituitary | (c) Thyroid | (d) Parathyroid |
| (e) Adrenal | (f) Pancreas | (g) Testis | (h) Ovary |
| (i) Thymus | (j) Atrium | (k) Kidney | (l) G-I Tract |

4. Fill in the blanks:

Hormones

Target gland

(a) Hypothalamic hormones

(b) Thyrotrophin (TSH)

(c) Corticotrophin (ACTH)

(d) Gonadotrophins (LH, FSH)

(e) Melanotrophin (MSH)

- * 5. Write short notes on the functions of the following hormones:
- | | |
|-------------------------------|--------------------------|
| (a) Parathyroid hormone (PTH) | (b) Thyroid hormones |
| (c) Thymosins | (d) Androgens |
| (e) Estrogens | (f) Insulin and Glucagon |

- * 6. Give example(s) of:
- Hyperglycemic hormone and hypoglycemic hormone
 - Hypercalcemic hormone
 - Gonadotrophic hormones
 - Progestational hormone
 - Blood pressure lowering hormone
 - Androgens and estrogens

- * 7. Which hormonal deficiency is responsible for the following:
- | | | |
|-----------------------|------------|---------------|
| (a) Diabetes mellitus | (b) Goitre | (c) Cretinism |
|-----------------------|------------|---------------|

- * 8. Briefly mention the mechanism of action of FSH.

9. Match the following:

Column I

Column II

(a) T_4

(i) Hypothalamus

(b) PTH

(ii) Thyroid

(c) GnRH

(iii) Pituitary

(d) LH

(iv) Parathyroid

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