



BIOLOGY

NCERT - FULL MARKS BIOLOGY(TAMIL)

CHEMICAL COORDINATION AND INTEGRATION

Exercise

1. Define the following:

(a) Exocrine gland , (b) Endocrine gland, (c)

Hormone



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2. Diagrammatically indicate the location of the various endocrine glands in our body .



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3. List the hormones secreted by the following :

(a) Hypothalamus , (b) Pituitary , (c) Throid, (d)

Parathyroid

(e) Adrenal, (f) Pancreas, (g) Testis , (h) Ovary

(i) Thymus, (j) Actrium , (k) Kidney, (l) G-I Tract

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4. Fill in the blanks :

Hormones	Target gland
(a) Hypothalamic hormones	_____
(b) Thyrotrophin (TSH)	_____
(c) Corticotrophin (ACTH)	_____
(d) Gonadotrophins (LH/FSH)	_____
(e) Melanotrophin (MSH)	_____

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5. What 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



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6. Give example(s) of :

(a) Hyperglycemic hormone and hypoglycemic hormone

(b) Hypercalcemic hormone

(c) Gonadotrophic hormones

(d) Progestational hormone

(e) Blood pressure lowering hormone

(f) Androgens and estrogens



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7. Which hormonal deficiency is responsible for the following ?

(a) Diabetes mellitus, (b) Goitre, (c) Cretinism



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8. Briefly mention the mechanism of action of FSH .



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9. Match the following :



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Evaluation

1. The maintenance of constant internal environment is referred as

A. Regulation

B. homeostasis

C. co-ordination

D. hormonal control

Answer:



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2. Which of the following are exclusive endocrine glands?

A. Thymus and testis

B. adrenal and ovary

C. parathyroid and adrenal

D. pancreas and parathyroid

Answer:



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3. Which of the following hormone is not secreted under the influence of pituitary gland?

A. thyroxine

B. insulin

C. oestrogen

D. glucocorticoids

Answer:



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4. Spermatogenesis in mammalian tests is controlled by

- A. Luteinising hormone
- B. Follicle stimulating hormone
- C. FSH and prolactin
- D. GH and prolactin

Answer:



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5. Serum calcium level is regulated by

A. Thyroxine

B. FSH

C. Pancreas

D. Thyroid and parathyroid

Answer:



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6. Iodised salt is essential to prevent

A. rickets

B. scurvy

C. goitre

D. acromegaly

Answer:



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7. Which of the following gland is related with immunity?

- A. Pineal gland
- B. adrenal gland
- C. thymus
- D. parathyroid gland

Answer:



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8. Which of the following statement about sex hormones is correct?

A. Testosterone is produced by Leydig cells under the influence of luteinizing hormone

B. Progesterone is secreted by corpus luteum and softens pelvic ligaments during child birth

C. Oestrogen is secreted by both sertoli cells and corpus luteum

D. Progesterone produced by corpus luteum is biologically different from the one produced by placenta.

Answer:



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9. Hypersecretion of GH in children leads to

A. Cretinism

B. Gigantism

C. Graves disease

D. Tetany

Answer:



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10. A pregnant female delivers a baby who suffers from stunted growth mental retardation low intelligence quotient and abnormal skin, This is the result of

A. Low secretion of growth hormone

B. Cancer of the thyroid gland

C. Over secretion of pars distalis

D. Deficiency of iodine in diet.

Answer:



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11. The structure which connects the hypothalamus with anterior lobe of pituitary gland is the

A. Dendrites of neuro hypophysis

B. Axons of neurohypophysis

C. Bands of white fibers from cerebellar region

D. Hypophysial portal system

Answer:



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12. Comment on homeostasis



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13. Which one of the following statement is correct

A. Calcitonin and thyroxine are thyroid hormones

B. Pepsin and prolactin are secreted in stomach

C. Secretin and rhodopsin are polypeptide hormones

D. Cortisol and aldosterone are steroid hormones

Answer:



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14. Which of the given option shows all wrong statements for thyroid gland.

(i) It inhibits process of RBC formation

(ii) It helps in maintenance of water and electrolytes

(iii) Its more secretion can reduce blood pressure

(iv) It stimulates osteoblast

A. (i) and (ii)

B. (iii) and (iv)

C. (i) and (iv)

D. (i) and (iii)

Answer:



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15. Hormons are known as chemical messenger justify.



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16. Write the role of oestrogen in ovulation



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17. Comment on Acini of thyroid gland



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18. Write the causes for diabetes mellitus and diabetes insipidus.



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19. Specify the symptoms of acromegaly



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20. Write the symptoms of cretinism.



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21. Briefly explain the structure of thyroid gland



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22. Name the layers of adrenal cortex and mention their secretions.



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23. Differentialte hyperglycemla from hypoglycemia



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24. Write the functions of (CCK) Cholecystokinin



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25. Growth hormone is important for normal growth justify the statement.



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26. Pineal gland is an endocrine gland ,write its role



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27. Comment on the function of adrenalin



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28. Predict the effects of removal of pancreas from the human body.





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29. Enumerate the role of kidney as an endocrine gland.



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30. Write a detailed account of gastro intestinal tract hormones



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