



BIOLOGY

BOOKS - KUMAR PRAKASHAN KENDRA

BIOLOGY (GUJRATI ENGLISH)

**CHEMICAL COORDINATION AND
INTEGRATION**

**Section A Exam Oriented Questions Answers
From Darpan**

1. State the importance of neural system.



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2. Give information of endocrine glands and hormones.



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3. Give brief information of location of endocrine glands and name in human.



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4. Give information of hormones secreted by hypothalamus. State its target / function in the body.



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5. Which type of hormones are secreted by pituitary gland ? Mention their names and target organs.





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6. Write short note : Pineal gland.



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7. Give information regarding location of thyroid gland and its hormones.



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8. Write short note - Disorders / Disease of thyroid gland.



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9. Give detailed information for location of gland hormones and physiological effects of parathyroid gland.



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10. Mention location of thymus gland in the body and state its importance.



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11. State location and types of adrenal gland.



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12. Describe hormones of adrenal gland, functions and disorders due to its deficiency.



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13. Describe the structure of pancreas, location and discuss its hormonal role.



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14. State the location of the testes. Mention the functions and name of the hormones produced by it.



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15. What is endocrine function of ovary besides reproductive organ.



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16. Which hormones are released from ovary ?
How is secondary sexual characters regulated by it ?



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17. What are the hormones of heart, kidney and G.I.tract ? What are their functions ?



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18. Chemically hormones are divided into which groups ?



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19. Describe mechanism of steroid and peoptide hormone with diagram.



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Section B Differentiate Scientific Reason

1. Neural system and Endocrine system



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2. Hormones of adrenal cortex and Hormones of adrenal medulla.



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3. Thyroid hormones and Parathyroid hormones



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4. Hormones of testis and Hormones of ovaries



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5. Hormones and Enzymes



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6. Hormones are regulatory chemicals.



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7. Less secretion of thyroxine results in stunted growth of person.



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8. Deficiency of insulin results in diabetes mellitus.



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9. Give a reason : Pancreas is endocrine as well as exocrine gland.



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Section C Definition Explanation Terms Location Function Differentive Word

1. Definitions / Explanation : Hormone



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2. Definitions / Explanation : Endocrine glands



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3. Definitions / Explanation : Exocrine glands



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4. Definitions / Explanation : Acromagely



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5. Location and function : Prolactin



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6. Location and function : ADH



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7. Location and function : Pineal gland



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8. Location and function : Relaxin



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9. Location and function : Thyrocalcitonin



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10. Difference in word : Neural system -
Endocrine system



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11. Difference in word : Oxytocin - Vasopressin



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12. Difference in word : Dwarfism - Gigantism.



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13. Difference in word : FSH - LH.



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14. Difference in word : RH : IH.



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15. Difference in word : Diabetes incipidus -
Diabetes mellitus.



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16. Difference in word : Testosterone -
Progesterone.



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17. Difference in word : Atrial Natriuretic Factor (ANF) - Erythropoietin.



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Section D Textual Exercise

1. Definitions / Explanation : Exocrine glands



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2. Definitions / Explanation : Endocrine glands



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3. Definitions / Explanation : Hormone



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4. Give information of hormones secreted by hypothalamus. State its target / function in the body.



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5. Which type of hormones are secreted by pituitary gland ? Mention their names and target organs.



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6. The hormones secreted by the following :
Thyroid



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7. The hormones secreted by the following :

Parathyroid



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8. The hormones secreted by the following :

Adrenal



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9. The hormones secreted by the following :

Pancreas



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10. The hormones secreted by the following :

Testis



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11. The hormones secreted by the following :

Ovary



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12. The hormones secreted by the following :

Thymus



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13. The hormones secreted by the following :

Atrium



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14. The hormones secreted by the following :

Kidney



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15. The hormones secreted by the following :

GI Tract



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16. Fill in the blank : Hypothalamic Hormones

.....



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17. Fill in the blank : Thyrotrophin (TSH)



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18. Fill in the blank : Corticotrophin (ACTH)

.....



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19. Fill in the blank : Gonadotrophin (LH, FSH).....



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20. Fill in the blank : Melanotrophin (MSH).....



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21. Write short notes on the functions of the following hormones : Parathyroid hormone (PTH)



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22. Write short notes on the functions of the following hormones : Thyroid hormones



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23. Write short notes on the functions of the following hormones : Thymosins



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24. Write short notes on the functions of the following hormones : Androgens



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25. Write short notes on the functions of the following hormones : Estrogens



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26. Write short notes on the functions of the following hormones : Insulin and Glucagon



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27. Give examples of : Hyperglycemic hormone and Hypoglycemic hormone



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28. Give examples of : Hypercalcemic hormone



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29. Give examples of : Gonadotrophic hormone



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30. Give examples of : Progestational hormone



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31. Give examples of : Blood pressure lowering hormone



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32. Give examples of : Androgens and estrogens



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33. Which hormonal deficiency is responsible for the following : Diabetes mellitus



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34. Which hormonal deficiency is responsible for the following : Goitre



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35. Which hormonal deficiency is responsible for the following : Cretinism



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36. Briefly mention the mechanism of action of FSH.



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37. 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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Section E Solution Of Ncert Exemplar Multiple Choice Questions

1. Select the right match of endocrine gland and their hormones among the options

given below:

Column-I		Column-II	
(A)	Pineal	(1)	Epineprine
(B)	Thyroid	(2)	Melatonin
(C)	Ovary	(3)	Estrogen
(D)	Adrenal medulla	(4)	Tetraiodothyronine

A. $(A - 4), (B - 2), (C - 1), (D - 3)$

B. $(A - 2), (B - 4), (C - 1), (D - 3)$

C. $(A - 3), (B - 2), (C - 1), (D - 4)$

D. $(A - 2), (B - 4), (C - 3), (D - 1)$

Answer: D



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2. Which of the following hormones is not secreted by anterior pituitary ?

A. Growth hormone

B. Follicle stimulating hormone

C. Oxytocin

D. Adrenocorticotrophic hormone

Answer: C



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3. Mary is about to face an interview. But during the first five minutes before the interview she experiences sweating, increased rate of heart beat, respiration etc. Which hormone is responsible for her restlessness ?

- A. Estrogen and progesterone
- B. Oxytocin and vasopressin
- C. Adrenaline and noradrenaline
- D. Insulin and glucagon

Answer: C



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4. The steroid responsible for balance of water and electrolytes in our body is

- A. Insulin
- B. Melatonin
- C. Testosterone
- D. Aldosterone

Answer: D



5. Thymosin is responsible for

- A. Raising the blood sugar level.
- B. Raising the blood calcium level.
- C. Differentiation of T-lymphocytes.
- D. Decrease in blood RBC.

Answer: C



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6. In the mechanism of action of a protein hormone, one of the second messengers is

A. Cyclic AMP

B. Insulin

C. T_3

D. Gastrin

Answer: A



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7. Leydig cells produce a group of hormones called

A. Androgens

B. Estrogens

C. Aldosterone

D. Gonadotropins

Answer: A



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8. Corpus luteum secretes a hormone called.....

A. Prolactin

B. Progesterone

C. Aldosterone

D. Testosterone

Answer: B



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9. Cortisol is secreted from

A. Pancrease

B. Thyroid

C. Adrenal

D. Thymus

Answer: C



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10. A hormone responsible for normal sleep - wake cycle is

A. Epinephrine

B. Gastrin

C. Melatonin

D. Insulin

Answer: C



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11. Hormones are called chemical signals that stimulate specific target tissues. Which is the correct location of these receptors in of protein hormones ?

A. Extra cellular matrix

B. Blood

C. Plasma membrane

D. Nucleus

Answer: C



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12. Match the following columns.

Column - I		Column - II	
(a) Epinephrine	(1)	Increase in muscle growth.	
(b) Testosterone	(2)	Decrease in blood pressure.	
(c) Glucagon	(3)	Breakdown in liver glycogen.	
(d) Atrial natriuretic factor	(4)	Increase heart beat.	

A. $(a - 2), (b - 1), (c - 3), (d - 4)$

B. $(a - 4), (b - 1), (c - 3), (d - 2)$

C. $(a - 1), (b - 2), (c - 3), (d - 4)$

D. $(a - 1), (b - 4), (c - 2), (d - 3)$

Answer: B



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13. Which of the following do not play any role in calcium balance in the human body ?

- A. Vitamin D
- B. Parathyroid hormone
- C. Thyrocalcitonin
- D. Thymosin

Answer: D



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14. All the following organs in mammals does not one consists of a central 'medullary' region surrounded by a cortical region.

A. Ovary

B. Adrenal

C. Liver

D. Kidney

Answer: C



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15. Which of the following conditions is not linked to deficiency of thyroid hormone ?

A. Cretinism

B. Goitre

C. Myxedema

D. Exophthalmosis

Answer: C



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Section E Solution Of Ncert Exemplar Very Short Answer Questions

1. There are many endocrine glands in human body. Name the glands which is absent in male and the one absent in female.



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2. Which of the two adrenocortical layers, zona glomerulosa and zona reticularis lies outside enveloping the other ?



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3. Which is erythropoiesis ? Which hormone stimulate it ?



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4. Name the only hormone secreted by pars intermedia of the pituitary gland.



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5. Name the endocrine gland that produces calcitonin and mention the role played by this hormone.



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6. Name the hormone that helps in cell-mediated immunity.



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7. What is the role of second messenger in the mechanism of protein hormone action ?



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8. True of false : Gastrointestinal tract, kidney and heart also produce hormones



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9. True of false : Pars distalis produces six trophic hormones.



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10. True or false : B-lymphocytes provide cell-mediated immunity.



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11. True or false : Insulin resistance results in a disease called diabetes mellitus.



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12. A patient complains of constant thirst, excessive passing of urine and low blood pressure, When the doctor checked the patients' blood glucose and blood insulin level, the level were normal or slightly low. Thw doctor diagnosed the condition as diabetes insupidus. But he decided to measure one more hormone in patients blood. Which hormone does the doctor intend to measure ?



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13. Correct the following statements by replacing the term underlined. : Insulin is a steroid hormone.



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14. Correct the following statements by replacing the term underlined. : TSH is secreted from the corpus luteum.



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15. Correct the following statements by replacing the term underlined. :

Tetraiodothyronine is an emergency hormone.



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16. Correct the following statements by replacing the term underlined. : The pineal gland is located on the anterior part of the kidney.



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17. Match the following columns.

Column - I		Column - II	
(A)	Oxytocin	(1)	Amino acid derivaties
(B)	Epinephrine	(2)	Steroid
(C)	Progesterone	(3)	Protein
(D)	Growth hormone	(4)	Peptide



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Section E Solution Of Ncert Exemplar Short Answer Questions

1. What is the role-played by luteinizing hormones in males and females respectively ?



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2. What is the role of second messenger in hormone action ?



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3. On an educational trip to Uttaranchal, Ketki and her friends observe that many local people were having swollen necks. Please help Ketki and her friends to find out the solutions to the following questions.

Which probable disease are these people suffering from ?



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4. On an educational trip to Uttaranchal, Ketki and her friends observe that many local people were having swollen necks. Please help Ketki and her friends to find out the solutions to the following questions.

How is it caused ?



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5. On an educational trip to Uttaranchal, Ketki and her friends observe that many local

people were having swollen necks. Please help Ketki and her friends to find out the solutions to the following questions.

What effect does this condition have on pregnancy ?



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6. George comes on a vacation to India from U.S. The long journey disturbs his biological system and he suffers from jet lag. What is the cause of his discomfort ?



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7. Inflammatory responses can be controlled by a certain steroid. Name the steroid, its source and also its other important functions.



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8. Old people have weak immune system. What could be the reason ?



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9. What are the effects of hypothyroidism (observed during pregnancy) on the development and maturation of a growing baby?



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10. Mention the difference between hypothyroidism and hyperthyroidism.



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Section E Solution Of Ncert Exemplar Long Answer Questions

1. A milkman is very upset one morning as his cow refuses to give any milk. The milkman's wife gets the calf from the shed. On feeding by the calf, the cow gave sufficient milk. Describe the role of endocrine gland and pathway associated with this response ?



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2. A sample of urine was diagnosed to contain high content of glucose and ketone bodies.

Based on this observation, answer the following :

Which endocrine gland and hormone is related to this condition ?



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3. A sample of urine was diagnosed to contain high content of glucose and ketone bodies.

Based on this observation, answer the following :

Name the cells on which this hormone acts.



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4. A sample of urine was diagnosed to contain high content of glucose and ketone bodies.

Based on this observation, answer the following :

What is the condition called and how can it be rectified ?



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5. Calcium plays a vary important role in the formation of bones. Write on the role of endocrine glands and hormones responsible for maintaining calcium homeostasis.



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6. Illustrate the differences between the mechanism of action of a protein and a steroid hormone.



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7. Hypothalamus is a super master endocrine gland. Elaborate.



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Questions From Module Important Mcq For Neet

1. Which endocrine gland stores its secretions in intercellular space before releasing into

blood ?

A. Adrenal

B. Pancreas

C. Testis

D. Thyroid

Answer: D



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2. Which pair is correct ?

A. Thyroxine - Tetanus

B. Insulin - Diabetes incipodus

C. Adrenaline - Tetany

D. Parathormone - Tetany

Answer: D



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3. Which hormone regulates 24 hour cycle and controls sleep and wakefulness ?

A. Adrenalin

B. Melationin

C. Calcitonin

D. Prolactin

Answer: B



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4. Does not function as secondary messenger.

A. Na

B. C - AMP

C. C - GMP

D. Calcium

Answer: A::D



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5. Which gland inactivated at old age ?

A. Adrenal

B. Pineal

C. Thymus

D. Pituitary

Answer: C



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Objective Section Multiple Choice Questions

1. Which organ is stimulated by secretin ?

A. Lungs

B. Liver

C. Pancreas

D. Gastric glands

Answer: D



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2. Which is not a steroid hormone ?

A. Aldosterone

B. Androgen

C. Estrogen

D. Thyroxine

Answer: D



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3. Anterior pituitary and hypothalamus is connected through

A. Hepatic portal vein

B. Renal portal vein

C. Hypothalamo hypophyseal axis

D. All of these

Answer: C



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4. Development of mammary gland and secretion of milk in females is by

A. GH

B. PH

C. TSH

D. FSH

Answer: B



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5. Inhibits the secretion of hormones of anterior pituitary gland

A. GH

B. FSHRH

C. GHRH

D. GHRH

Answer: C



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6. Which hormone regulates the development, maturation and functions of male reproductive system.

A. Androgens

B. LTH

C. FSH

D. TSH

Answer: A



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7. Absence of causes Diabetes inspidus.

A. Oxytocin

B. ADH

C. Prolactin

D. Testosterone

Answer: B



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8. Hormone regulating 24-hour (diurnal) rhythm.

A. ADH

B. Prolaction

C. Melatonn

D. Testosterone

Answer: C



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9. Deficiency results in hypothyroidism and enlargement of thyroid gland, commonly called as goitre.

A. Vitamin

B. Protein

C. Iodine

D. Lipids

Answer: C



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10. Pregnancy hormone is

A. Estrogen and progesterone

B. Androgen

C. Progesterone

D. Gastrin

Answer: C



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11. Secretion of which gland regulates oxidation and ATP formation.

A. Somatotrophic hormone

B. Pituitary gland

C. Thyroid

D. Adrenaline

Answer: C



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12. Hormone acts on bones and stimulates the process of bone resorption

A. PTH

B. TCT

C. Thymosin

D. Melatonin

Answer: A



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13. Which hormone increases Ca^{+2} absorption from digested food and increases Ca^{++} level in blood ?

A. Thymosin

B. PTH

C. Thyroxine

D. TCT

Answer: B



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14. Hormone playing major role in differentiation of T-lymphocytes

A. Thyroxine

B. Thymosine

C. PTH

D. Thyroid gland

Answer: B



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15. Hormones including in the category of catecholamines are

A. Prolactin

B. Adrenaline - nor - adrenaline

C. Adrenal

D. Mineralcorticoid

Answer: B



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16. Hormone regulating the balance of water and electrolytes in our body

A. Epinephrine

B. nor epinephrine

C. Adrenal

D. Mineralcorticoids

Answer: D



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17. A : Hypothalamus is made up of neuron.

R : Pineal hormone secreted from hypothalamus.

A. A and R both are correct and R is correct explanation of A.

B. A and R are correct but R is not explanation of A.

C. A is correct and R is false.

D. A and R are false.

Answer: B



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18. A : Hypothalamus and adenohypophysis in connected through hypothalamicohypophyseal axis

R : Hypothalamus secretes the releasing hormones the inhibiting hormones.

A. A and R both are correct and R is correct explanation of A.

B. A and R are correct but R is not explanation of A.

C. A is correct and R is false.

D. A and R are false.

Answer: B



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19. A : Our body secretes adrenaline in intense cold.

R : Adrenaline raise metabolic rate.

A. A and R both are correct and R is correct explanation of A.

B. A and R are correct but R is not explanation of A.

C. A is correct and R is false.

D. A and R are false.

Answer: A



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20. A : Glucagon is a hypoglycemic hormone.

R : It increases the utilization of glucose in tissue.

A. A and R both are correct and R is correct explanation of A.

B. A and R are correct but R is not explanation of A.

C. A is correct and R is false.

D. A and R are false.

Answer: D



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21. A : Hormone calcitonin has antagonistic effect to that of parathormone.

R : Calcitonin decreases blood Ca^{++} level while PTH increases blood Ca^{++} level.

A. A and R both are correct and R is correct explanation of A.

B. A and R are correct but R is not explanation of A.

C. A is correct and R is false.

D. A and R are false.

Answer: A



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Objective Section Analogy Type Questions

1. Hyperglycemia : Diabetes mellitus :: ADH :

.....



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2. GH-oversecretion : Gigantism :: GH-Hyposcretion :

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3. Pineal gland : Melatonin :: Somatostatin :

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4. ADH : Diabetes inspidus :: Pancreatic β -cells

:



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5. Corpus luteum : progesterone : leyding cells

:



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6. GIP : Gastric inhibitory peptide :: CCK ::



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7. Ovarian follicles : estrogen :: corpus luteum :

.....



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8. Reduces cellular glucose uptake :

Hyperglycemia :: Decrease in blood glucose

level ::



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9. Pancreatic α -cell : Glucagon :: β -cell :



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Objective Section True Or False

1. Somatostatin from hypothalamus inhibits the release of growth hormone from pituitary.



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2. Hypothalamus forms upper part of diencephalon of forebrain.



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3. Anterior pituitary gland can also be called as neurohypophysis.



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4. Deficiency of Iodine in our diet results in hypothyroidism.



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5. CH and FSH inhibits gonadial activity.



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6. MSH regulates pigmentation of skin.



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7. ADH can also be called as vasopressin.



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8. Parathormone decrease blood Ca^{++} level.



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9. Thymosin plays a major role in differentiation of T - lymphocyte which provide cell - mediated immunity.



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10. Under production of hormones by adrenal cortex can cause Addison's disease.



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11. Glucagon from Pancreatic cell decreases blood glucose level.



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12. Leydig cells in intertubular spaces secrete estrogen.



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13. After ovulation, the ruptured follicle is converted into a structure called corpus luteum which secretes progesterone.



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14. Atrial wall of our heart secretes ANF.



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15. The juxtaglomerular cells of kidney produce erythropoietin which inhibits erythropoiesis (formation of RBC)



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Objective Section Pick Up The Correct Option

1. Hormones acting as intercellular messengers and are produced in trace amounts are nutrient / non-nutrient.



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2. Posterior pituitary gland secretes oxytocin/prolactin.



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3. Under secretion of GH causes gigantism/low secretion results in stunted growth.



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4. Glucocorticoids are steroids/proteinaceous



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5. In females, LH induces/inhibits rupturing Graafian follicles to cause ovulation.



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6. TCT regulates level of $N\frac{a^+}{C}a^{++}$ ion blood.



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7. Thymosine of thymus gland is steroid/peptide hormone.



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8. The hormones of adrenal medulla are generally steroids / catecholamines.



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9. Pancreas α -cell secreted glucagon/Insulin hormone.



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Objective Section Fill In The Blanks

1. Hormones produce their effects on target tissues by binding to specific proteins called.....



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2. acts on gastric glands and stimulates secretion of HCl.



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3. From hypothalamus inhibits the release of growth hormone from pituitary.



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4. Glucagon acts mainly on liver cells and Glycogenolysis resulting in an increased blood sugar.



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5. Glucocorticoids particularly cortisol, produces Reactions and suppresses the immune response.



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6. Cortisol The RBC production.



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7. Thymosine play amjor role in the differentiation of

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8. PTH increases the Levels in blood.

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9. Plays a very important role in the regulation of 24-hour rhythm in our body.



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