



BIOLOGY

BOOKS - NCERT BIOLOGY (HINGLISH)

CHEMICAL COORDINATION AND INTEGRATION

MCQ

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

below

A.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
4	2	1	3

B.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
2	4	1	3

C.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
3	2	1	4

D.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
2	4	3	1

Answer:



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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:





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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:



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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 RBCs

Answer:



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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:



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8. Corpus luteum secretes a hormone called

- A. prolactin
- B. progesterone
- C. aldosterone
- D. testosterone

Answer:



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9. Cortisol is secreted from

A. pancreas

B. thyroid

C. adrenal

D. thymus

Answer:



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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

corret location of these receptors in case of protein hormones?

- A. Extra ceiiular matrix
- B. Blood
- C. Plasma membrane
- D. Nucleus

Answer:



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12. Match the following columns



A.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
2	1	3	4

B.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
4	1	3	2

C.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
1	2	3	4

D.

<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>
1	4	2	3

Answer:



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

A. Vitamin-D

B. Parathyroid hormone

C. Thyrocalcitonin

D. Thymosin

Answer:



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14. All the following tissues in the mammals except one consists of a central 'medullary' region surrounded by a cortical region. Make the wrong entry

A. ovary

B. adrenal

C. liver

D. kidney

Answer:



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

- A. Cretinism
- B. Goitre
- C. Myxoedema
- D. Exophthalmia

Answer:



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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. What is erythropoiesis? Which hormone stimulates it?



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4. Name the only hormone secreted by the 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. State whether true or false

(a) Gastrointestinal tract, kidney and heart also produce hormones. (b) Pars distalis produces six trophic hormones. (c) B-lymphocytes provide cell-mediated immunity.

(d) Insulin resistance results in a disease called diabetes mellitus.



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9. 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. The doctor diagnosed the condition as diabetes insipidus. But he decided to measure one

more hormone in patients blood. Which hormone does the doctor intend to measure?



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10. Correct the following statements by replacing the term underlined. (a) Insulin is a steroid hormone .

(b) TSH is secreted from the corpus luteum.

(c) Tetraiodothyronine is an emergency hormone.

(d) The pineal gland is located on the anterior part of the kidney.



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11. Match the following columns



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12. What is the role-played by luteinising hormones in males and females respectively?



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



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14. 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.

(a) which probable disease are these people suffering from?

(b) How is it caused?

(c) What effect does this condition have on pregnancy?



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15. George comes on a vacation to India from US. The long journey disturbs his biological

system and he suffers from jet lag. What is the cause of his discomfort?



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



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17. Old people have weak immune system.

What could be the reasons?



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



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19. Mention the difference between hypothyroidism and hyperthyroidism.



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Long Answer Type 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

(a) which endocrine gland and hormone is related to this condition?

(b) name the cells on which this hormone acts

(c) what is the condition called and how can it be rectified?



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3. Calcium plays a very 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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4. Illustrate the differences between the mechanism of action of a protein and a steroid hormone.



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



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