



# BIOLOGY

## BOOKS - SUPER COMPANION 5 IN 1

### CHEMICAL COORDINATION AND INTEGRATION

**One Mark Questions And Answers**

1. What is the anterior lobe of pituitary called?



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2. Posterior lobe of pituitary is neurohaemal.

What does it mean?



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3. What is Cushing's disease?



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4. Name the disorder characterised by diuresis due to hyposecretion of anti-diuretic hormone.



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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. 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 levels, the levels were normal or slightly low. The doctor diagnosed the condition as diabetes insipidus. But he decided to measure

one more hormone in patient's blood. Which hormone does the doctor intend to measure?



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## Two Mark Questions And Answers

1. State the function of LH.



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2. Name any two gonadotropic hormones, giving a function of each.



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3. Define the following:

Exocrine gland.



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**4. Define the following:**

Endocrine gland.



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**5. Define the following:**

Hormone.



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6. List the hormones secreted by the following

:

Hypothalamus



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7. List the hormones secreted by the following

:

Pituitary



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**8.** List the hormones secreted by the following

:

Thyroid



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**9.** List the hormones secreted by the following

:

Parathyroid



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**10.** List the hormones secreted by the following :

Adrenal



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**11.** List the hormones secreted by the following :

Pancreas



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**12.** List the hormones secreted by the following :

Testis



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**13.** List the hormones secreted by the following :

Ovary



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**14.** List the hormones secreted by the following :

Thymus



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**15.** List the hormones secreted by the following :

Atrium



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**16.** List the hormones secreted by the following :

Kidney



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**17.** List the hormones secreted by the following :

G-I Tract



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**18.** Write short notes on the functions of the following hormones :

Thymosins



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**19.** Write short notes on the functions of the following hormones :

Estrogens



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**20.** Write short notes on the functions of the following hormones :

Insulin and Glucagon.



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**21.** State the function of LH.



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**22.** Give example of :

Hyperglycemic hormone and hypoglycemic hormone



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**23.** Give example of :

Hypercalcemic hormone



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**24.** Give example of :

Gonadotropin hormone



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**25.** Briefly mention the mechanism of action of FSH.



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**26.** What is the role played by the luteinizing hormones, in males and females respectively ?



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**27.** What is the role of a second messenger in hormone action?



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**Three Marks Questions And Answers**

1. State whether true or false :

Gastrointestinal tract, kidney and heart also produce hormones.



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2. State whether true or false :

Pars distalis produces six trophic hormones.



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3. State whether true or false :

B-lymphocytes provide cell mediated immunity.



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4. Match the hormones in column I with their chemical nature in column II.

Column I

Column II

(a) Oxytocin

(i) Amino acid derivative

(b) Epinephrine

(ii) Steroid

(c) Progesterone

(iii) Protein

(d) Growth

(iv) Peptide



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## Five Marks Questions And Answers

1. Name any two gonadotropic hormones, giving a function of each.



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2. Give the target glands for the given hormones.

Hormones:

Target gland :

(a) Hypothalamic hormones \_\_\_\_\_



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3. Give the target glands for the given hormones.

Hormones: Target gland :  
(b) Thyrotrophin (TSH) \_\_\_\_\_



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4. Give the target glands for the given hormones.

Hormones: Target gland :  
(c) Corticotrophin (ACTH) \_\_\_\_\_



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5. Give the target glands for the given hormones.

Hormones: \_\_\_\_\_ Target gland : \_\_\_\_\_  
(d) Gonadotrophins (LH.FSH) \_\_\_\_\_



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6. Give the target glands for the given hormones.

Hormones: \_\_\_\_\_ Target gland : \_\_\_\_\_  
(e) Melanotrophin(MSH) \_\_\_\_\_



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7. Which hormonal deficiency is responsible for the following:

Diabetes mellitus



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8. Which hormonal deficiency is responsible for the following:

Goitre



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9. Which hormonal deficiency is responsible for the following:

Cretinism



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10. Hypothalamus is a supermaster endocrine gland. Elaborate.



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



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