



BIOLOGY

BOOKS - MBD BIOLOGY (ODIA ENGLISH)

CHEMICAL COORDINATION AND REGULATION

Question Bank

1. Graafian follicle secretes_____.

A. Testosteron

B. Oestrogen

C. Progesteron

D. Relaxin

Answer: B



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2. Hyposecretion of _____ is responsible for diabetes insipidus.

A. PTH

B. ICSH

C. MSH

D. ADH

Answer: D



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3. Which hormone regulates the calcium level of blood ?

A. Thyroxin

B. Parathormone

C. Aldosterone

D. ICSH

Answer: B



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4. Learning is related to _____ part of human brain.

A. Cerebrum

B. Cerebellum

C. Optic lobes

D. Arborvitae

Answer: A



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5. Crura cerebri is found in _____ .

A. Fore brain

B. Mind brain

C. Hind brain

D. Spinal cord

Answer: B



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6. The posterior pituitary.

A. Produces oxytocin

B. Is under the control of Hypothalamic releasing neurohormone

C. Secretes trophic hormones

D. Secretes neurohormones

Answer: A



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7. Parathyroid hormone:

A. Is produced by the thyroid gland

B. Is released when blood calcium levels fall

C. Stimulates osteoblasts to lay down new
bone

D. Stimulates calcitonin release

Answer: B



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8. steroid hormones:

A. Have only cell surface receptors

B. Are lipophobic

C. Act through altering the activity of proteins in the target cell

D. Are produced by the adrenal cortex

Answer: C



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9. Both adrenaline and cortisol are secreted in response to stress. Which of the following

statements is also true for both of these hormones ?

- A. They act to increase blood glucose
- B. They are secreted by the adrenal cortex
- C. Their secretion is stimulated by adrenocorticotropin
- D. They are secreted into the blood within second of the onset of stress

Answer: A



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10. Blood pressure is under the control of:

A. Adrenal

B. Thyroid

C. Thymus

D. Pituitary

Answer: A



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11. Implantation of embryo and production of placenta is controlled by:

A. Progesterone

B. Oestrogen

C. Testosterone

D. Prolactin

Answer: A



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12. Secretin stimulates:

A. Pancreas

B. Gall bladder

C. Lungs

D. Gastric gland

Answer: A



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13. Treatment with alloxan destroys:

A. STH cells

B. β -cells of islets of Langerhans.

C. Cells of Sertoli

D. Cells of Leydig

Answer: B



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14. If parathyroid gland degenerates which activity is disturbed ?

A. Growth

B. Calcium concentration

C. Potassium concentration

D. Sodium concentration

Answer: B



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15. FSH is formed by:

- A. Posterior pituitary lobe
- B. Middle pituitary lobe
- C. Adrenal cortex
- D. Anterior pituitary lobe

Answer: D



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16. Ovulation in mammals is caused by:

A. FSH and TSH

B. FSH and LH

C. FSH and LTH

D. LTH and LH

Answer: B



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17. Gastric secretion is stopped by hormone:

A. Enterogastrone

B. Gastrin

C. Pancreozymin

D. Cholecystokinin

Answer: A



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18. The contraction of gall bladder is due to:

A. Enterogastrone

B. Gastrin

C. Cholecystokinin

D. Secretin

Answer: C



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19. The most important component of the oral contraceptive pill is:

A. Progesterone

B. Growth hormone

C. Thyroxine

D. Luteinizing hormone

Answer: D



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20. Cretinism is produced when one of the following is deficient.

A. Adrenaline

B. Growth hormone

C. Parathormone

D. Thyroxine

Answer: D



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21. Mainly which type of hormones control the menstrual cycle in human beings ?

A. FSH

B. LH

C. FSH, LH, Estrogen

D. Progesterone

Answer: C



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22. When both ovary are removed from rat then which hormone is decreased in blood ?

A. Oxytocin

B. Prolactin

C. Estrogen

D. Gonadotrophic releasing factor

Answer: B



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23. Choose the correct statement about 'neurohypophysis'.

A. It stores the hormones produced by
adenohypophysis

B. It is poorly developed and functionless
in humans

C. It stores and releases hormones
secreted by hypothalamus

D. It secretes its own hormones

Answer: C



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24. Moulting hormone is secreted in insects by which gland ?

- A. Corpora allata
- B. Pineal gland
- C. Hypothalamus
- D. Prothoracic gland

Answer: D



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25. Spermatogenesis is induced by:

A. FSH

B. ACTH

C. ATC

D. ATH

Answer: A



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26. The hormone ACTH is secreted by:

A. Adrenal cortex

B. Adrenal medulla

C. Pituitary gland

D. Thymus gland

Answer: C



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27. Metamorphosis of Tadpole (frog) is accelerated by:

A. Insulin

B. Growth hormone

C. Vasopressin

D. Thyroxine

Answer: D



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28. A person passes much urine and deink much water but his blood glucose level is normal. This condition may be the result of:

A. A reduction in insulin secretion from pancreas

B. A reduction in vasopressin secretion from posterior pituitary

C. A fall in the glucose concentration in urine

D. An increase in secretion of glucagon

Answer: B



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29. Which one of the following pairs correctly matches a hormone with a disease resulting from its deficiency ?

A. Relaxin - Gigantism

B. Prolactin - Cretinism

C. Parathyroid hormone - Tetany

D. Insulin - Diabetes insipidus

Answer: C



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30. Blood pressure is under the control of:

A. Thyroid gland

B. Adrenal gland

C. Thymus gland

D. Parathyroid gland

Answer: B



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31. Neurons of people suffering from diabetes insipidus do not secrete:

A. Enzyme

B. Steroid

C. Fatty acid

D. ADH

Answer: D



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32. Which is the largest endocrine gland ?

A. Thyroid gland

B. Adrenal gland

C. Thymus

D. Pituitary gland

Answer: A



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33. Which one of the following pituitary hormones does not have a target organ to act upon ?

A. Thyrotrophin

B. Gonadotrophin

C. Adrenocorticotrophin

D. Somatotrophin

Answer: D



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34. The hypofunction of B-cells of islet of Langerhans are

- A. Hypoglycaemia and glycosuria
- B. Hyperglycaemia and glycosuria
- C. Hyperinsulinism and uraemia
- D. Hyperglycaemia and diabetes mellitus

Answer: D



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35. Which of the following hormones has no control over gluconeogenesis ?

A. Glucagon

B. Insulin

C. Aldosterone

D. Corticosterone

Answer: C



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36. Which of the following hormones has no effect on heartbeat ?

A. Thyroxine

B. Oxytocin

C. Adrenalin

D. Non-adrenalin

Answer: B



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37. The living steady state has a self-regulatory mechanism which is:

A. Feedback mechanism

B. Homeotherms

C. Homozygous

D. Homeostasis

Answer:



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38. Chemically hormones are:

A. Biogenic amines only

B. Proteins, steroids and biogenic amines

C. Proteins only

D. Steroids only

Answer: B



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39. Which one of the following pairs correctly matches a hormone with a disease resulting from its deficiency ?

A. Luteinizing hormone - Failure of ovulation

B. Insulin - Diabetes insipidus

C. Thyroxine - Tetany

D. Parathyroid hormone - Diabetes mellitus

Answer: A





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40. Which of the following hormones is not a product of human placenta ?

- A. Human chorionic gonadotropin
- B. Prolactin
- C. Estrogen
- D. Progesterone

Answer: B



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41. Which one of the following hormones is modified amino acid ?

- A. Epinephrine
- B. Progesterone
- C. Prostaglandin
- D. Estrogen

Answer: A



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42. Steroid hormones is derived from:

A. Corticoid

B. Cholesterol

C. Protein

D. None of these

Answer: B



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43. Which of the following act as secondary messenger metabolism ?

A. ATP

B. Camp

C. ADP

D. NAD

Answer: B



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44. Glycoproteinaceous hormone is:

A. Insulin

B. Oxytocin

C. Erythropoietin

D. Relaxin

Answer: C



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45. Hyposecretion of growth hormone in the period of growth lead to:

- A. Acromegaly
- B. Cushing's syndrome
- C. Dwarfism
- D. Cretinism

Answer: A



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46. The molecular structure of insulin was first described by:

- A. Korenberg
- B. Swaminathan
- C. Richardson
- D. Sanger

Answer: D



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47. Mammalian prolactin is secreted by:

A. Adenohypophysis

B. Neurohypophysis

C. Adrenal cortex

D. Adrenal medulla

Answer: A



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48. Which of the following diseases is not related to thyroid gland ?

A. Myxoedema

B. Acromegaly

C. Cretinism

D. Goitre

Answer: B



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49. _____ hormone Stimulates pancreas to release pancreatic juice.



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50. _____ hormone stimulates gall bladder to release bile.



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51. _____ hormone stimulates the secretion of succus entericus.



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52. _____ hormone stops the secretion of gastric juice.



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53. _____ hormone is produced in kidney.



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54. From _____ organ angiotensinogen hormone is secreted.



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55. _____ hormone is secreted from heart and relaxes blood vessels.



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56. _____ discovered the first hormone.



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57. _____ gland secretes melatonin hormone.



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58. _____ term is applied to the calcium deposits in the pineal gland.



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59. In some males mammary glands develop the condition called_____.



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60. _____ day is observed as World Diabetes Day.



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61. Which hormone regulates the calcium level of blood ?



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62. _____ hormone is called 'birth hormone'.



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63. From _____ amino acids thyroxine is synthesized.



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64. _____ endocrine gland is considered 'the throne of immunity'.



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65. _____ is the condition called when the testes are removed.



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66. _____ is the disease characterised by high plasma Na^+ , low plasma K^+ rise in blood volume and high blood pressure.



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67. Which part of uriniferous tubule is directly influenced by ADH?



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68. _____ hormone is called milk ejection hormone.



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69. Due to disorder in _____ gland Simmond's disease occurs.



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70. _____ hormone regulates the biological clock.



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71. Deficiency of _____ vitamin impairs insulin synthesis.



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72. _____ gland is referred as "Four S", S standing for salt, sugar, sex and stress.



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73. Hormone _____ stimulates corpus luteum of ovary to produce progesterone.



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74. Which is the largest endocrine gland ?



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75. Which hormone stimulates milk secretion in the breast ?



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76. _____ hormone is called milk ejection hormone.



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77. Which hormone is secreted from pars intermedia ?



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78. Which hormone is secreted by placenta ?



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79. What are the secretory structures of the body called ?





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80. What are the glands those pass out their secretions to site action through ducts called ?



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81. Glands secreting chemical substances directly to blood (without a duct) are known as what ?



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82. What are the informational molecules of chemical messengers secreted by endocrine glands popularly known as ?



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83. Which gland is regarded as the master gland in the body ?



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84. Which gland is regarded as Band master of endocrine orchestra?



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85. What is the effect of hyposecretion of somatropic hormone on a child ?



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86. What is the effect of hyposecretion of somatotrophic hormone on a child ?



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87. Which endocrine gland is stimulated by adrenocorticotrophic hormone(ACTH) ?



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88. Which hormone stimulates thyroid ?



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89. Which hormone is secreted by thyroid gland ?



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90. Which hormone contains iodine ?



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91. Which hormone is responsible for development and maturation of ovary in females ?



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92. Name the hormone that stimulates development of seminiferous tubules in testis of males.



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93. Which hormone is also called gametokinetic factor ?



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94. Which hormone promotes ovulation and formation of corpus luteum ?



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95. Which hormone stimulates the growth of mammary gland and secretion of milk after child birth ?



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96. Which hormone is responsible for synthesis of melanin ?



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97. Hyposecretion of _____ is responsible for diabetes insipidus.



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98. Which hormone is concerned with reabsorption of water in the distal convoluted tubules and collecting tubules of the kidney ?



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99. What disease is caused due to hypersecretion of thyroxine ?



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100. what causes myxoedema of Gull's disease in adult and cretinism in children ?



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101. Inadequate supply of what in diet causes simple goitre in man ?



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102. Which hormone maintains calcium level in blood ?



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103. Which hormone lowers calcium level in blood and deposits it in bone ?



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104. Hypersecretion of which hormone causes Addison's disease ?



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105. Which hormone is called emergency hormone ?



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106. Which gland is called emergency gland or glands of 3F(Fright, fight and flight) ?



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107. _____ cells secrete hormone glucagon.



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108. Which cells of islet of Langerhans secrete insulin ?



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109. Who first extracted insulin ?



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110. Deficiency in the secretion of insulin causes which disease ?



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111. Which hormone promotes formation of glycogen from glucose (glycogenesis) ?



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112. Which hormone is also known as hypoglycemic factor or antidiabetic factor ?



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113. What is the condition, when blood glucose level exceeds 180 mg per 100 ml of blood called ?



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114. Which cells of testis secrete androgens ?



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115. Hyposecretion of which hormone causes eunuchoidism ?



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116. Development of secondary sexual characters in male is controlled by which

hormone ?



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117. Which structure in ovary secretes estrogen or estradiol ?



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118. Which female hormone is secreted by corpus luteum ?



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119. Which hormone secreted by corpus luteum, uterus and placenta helps in relaxation of pubic symphysis ?



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120. When the chorionic gonadotropin hormone is secreted from placenta ?



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121. Hypersecretion of which hormone develops weak skeletal muscles (myasthenia gravis) ?



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122. Which gland secretes thymosin, thymine I and thymine II hormones ?



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123. Which hormone stimulates the secretion of gastric ?



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124. Androgens are commonly called 3F hormones.



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125. Thyroxine is a glycoprotein hormone.



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126. Hormone are biological catalysts.



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127. Glucagon is a hypoglycemic factor.



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128. Pituitary gland is the coordination center of the all endocrine gland.



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129. The pituitary gland secretes thyroxine hormone.

A. True

B. False

C.

D.

Answer: The thyroid gland secretes thyroxine hormone.



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130. Melatonin hormone stimulates the proliferation of lymphocytes enhancing immunity(Thymasin).



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131. Exocrine gland secrete hormone.

A. True

B. False

C.

D.

Answer: Endocrine gland secrete hormone.



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132. Hyposecretion of thyroxine causes exophthalmic goitre.



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133. Hormones secreted by neurohypophysis are synthesized in neurohypophysis.

A. True

B. False

C.

D.

Answer: Hormones secreted by neurohypophysis are synthesized in hypothalamus.



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134. Which endocrine gland is called the 'Biological clock' and why ?



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135. Give the endocrine function of the posterior lobe of pituitary gland.



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136. Give the location and the names of different hormones of thyroid.



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137. Give the effects of hypersecretion of thyroxine.



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138. What are the cause and characteristics of Addison's disease ?



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139. Write a note on Cushing's syndrome.



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140. What is gynaecomastia ? How is it caused ?



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141. What are the functions of noradrenaline /norepinephrine ?



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142. Give the location of thymus. What is the role of the hormone secreted from it ?



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143. Write a short note on the mode of hormone action through intracellular receptors.



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144. What are the functions of thyroxine ?



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145. What is hyperthyroidism ?



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146. What is hypothyroidism ?



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147. Give the functions of thyrocalcitonin (TCT).



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148. What hormones are secreted from Zona glomerulosa and what roles they play?



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149. What hormones are released from Zona fasciculata and what roles they play?



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150. Write a note on adrenal medulla.



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151. Indicate the organs of production and function of the following hormones: (Prolactin, Insulin, Testosterone, Thyroxine).



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152. Name the glands of endocrine system of human.



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153. Give the name of hormones secreted from the anterior lobe of pituitary and the cells of the organs they influence.



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154. Pituitary gland is the coordination center of the all endocrine gland.



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155. Write a note on pineal gland and biological clock.



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156. What are the functions of thyroxine ?



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157. Give the characteristics of disorders caused due to hyposecretion of thyroid hormone.



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158. Give the location and effects of hormones of parathyroid glands in man.



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159. Explain emergency hormone/gland of emergency.



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160. What hormones are secreted from kidney ?



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161. From which gland glucagon, insulin and somatostatin are released ? What are their function ?



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162. Describe the role of a hormone as messenger.



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163. Explain hormones as regulators.



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164. Distinguish between Exocrine and Endocrine gland.



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165. Draw out the differences between FSH and LH.



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166. What are the differences between gigantism and acromegaly conditions?



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167. Distinguish dwarfism from cretinism.



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168. Distinguish between exophthalmic goitre and iodine deficiency goitre.



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169. Distinguish between somatostatin and somatotropin hormones.



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170. Distinguish between follicle-stimulating hormones (FSH) and luteinizing hormone (LH).



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171. Bring out the differences between hyperglycemia and hypoglycemia.



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172. Differentiate diabetes mellitus from diabetes insipidus.



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173. Bring out the differences between Hormone and Enzyme.



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174. Differentiate between nervous coordination and endocrine coordination.



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