BIOLOGY

BOOKS - SURA BIOLOGY (TAMIL ENGLISH)

PLANT AND ANIMAL HORMONES

Textbook Evaluation Choose The Correct Answer

1. Gibberellins cause :

A. Shortening of genetically tall plants

B. Elongation of dwarf plants

C. Promotion of rooting

D. Yellowing of young leaves

Answer: B

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2. The hormone which has positive effect on apical dominance is

A. Cytokinin

B. Auxin

C. Gibberellin

D. Ethylene

Answer: B

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3. Which one of the following hormones is naturally not found in plants:

A. 2, 4-D

B. GA3

C. Gibberellin

D. IAA

Answer: A

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4. Avena coleoptile test was conducted by

A. Darwin

B. N.Smit

C. Paal

D. F.W. Went

Answer: D

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5. To increase the sugar production in sugarcanes they are sprayed with

A. Auxin

B. Cytokinin

C. Gibberellin

D. Ethylene

Answer: D

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6. LH is secreted by

A. Adrenal gland

B. Thyroid gland

C. Anterior pituitary

D. Hypothalamus

Answer: C

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7. Indentify the exocrine gland

A. Pituitary gland

B. Adrenal gland

C. Salivary gland

D. Thyroid gland

Answer: C

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8. .....gland is both exocrine and endocrine.

A. Pancreas

B. Kidney

C. Liver

D. Lungs

Answer: A

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9. Which one is referred as "Master Gland"?

A. Pineal gland

B. Pituitary gland

C. thyroid gland

D. Adrenal gland

Answer: B

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Textbook Evaluation Fill In The Blanks

1. _____ causes cell elogation,apical dominance and prevent abscission.

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2. .....is a gaseous hormone involved in abscission of organs and acceleration of fruit ripening

Watch Video Solution

3. .....causes stomatal closure.

Watch Video Solution

4. Gibberelins induce stem elongation in _____ plants.

Watch Video Solution

5. The hormone which has negative effect on apical dominance is.....

Watch Video Solution

6. Calcium metabolism of the body is controlled by .....

Watch Video Solution

7. The beta cells of islets of langerhans secrete .....

Watch Video Solution

8. Fill in the blanks:

(i) ____causes stomatal closure.

(ii) The growth and functions of thyroid gland is controlled by____.

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9. Decreased secretion of thyroid hormones in the children leads to.....

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Textbook Evaluation Match The Following

1. Match Column I with Column II and III.

Column I	Column II	Column III
Auxin	*Gibberella fujikuroi*	Abscission
Ethylene	Coconut milk	Internodal elongation
Abscisic acid	Coleoptile tip	Apical dominance
Cytokinin	Chloroplast	Ripening
Gibberellins	Fruits	Cell division

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2. Match the following hormones with their deficiency states.

	Hormones		Disorders
A	Thyroxine	(i)	Acromegaly
B	Insulin	(ii)	Tetany
C	Parathormone	(iii)	Simple goitre
D	Growth hormone	(iv)	Diabetes insipidus
E	ADH	(v)	Diabetes mellitus

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Textbook Evaluation State Whether True Or False If False Write The Correct Statement

1. A plant hormone concerned with stimulation of cell division and promotion of nutrient mobilization is eytokinin.

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2. Gibberellins cause parthenocarpy in tomato

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3. Ethylene retards senescence of leaves, flowers and fruits.

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4. Exopthalmic goiter is due to the over secretion of thyroxine.

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5. Pituitary gland is divided into four lobes.

6. Estrogen is secreted by corpus luteum.

Textbook Evaluation Assertion And Reason

1. Assertion: Application of cytokinin to marketed vegetables can keep them fresh for several days.

Reason: Cytokinins delay senescence of leaves and other organs by mobilisation of nutrients

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

B. If both A and R are true but R is not the correct explanation of A.

C. A is true and R is false.

D. Both A and R are false.

Answer:

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2. Assertion (A): Pituitary gland is referred as "Master gland.

Reason (R): It controls the functioning of other endocrine glands.

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

B. If both A and R are true but R is not the correct explanation of A.

C. A is true and R is false.

D. Both A and R are false.

Answer:

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3. Asseration (A) : Diabetes mellitus increases the blood sugar levels.Reasons(R) : Insulin decreases the blood sugar levels .

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

B. If both A and R are true but R is not the correct explanation of A.

C. A is true and R is false.

D. Both A and R are false.

Answer:

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Textbook Evaluation Answer In A Word Or Sentence

1. Which hormone promotes the production of male flowers in Cucurbits?

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2. Write the name of a synthetic auxin.

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3. Which hormone induces parthenocarpy in tomatoes?

Watch Video Solution

4. What is the hormone responsible for the secretion of milk in female after child birth?

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5. Name the hormones which regulates water and mineral metabolism in man.

Watch Video Solution

6. Which hormone is seereted during emergency situation in man?

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7. Which gland secretes digestive enzymes and hormones?

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8. Name the endocrine gland associated with kidneys

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Textbook Evaluation Short Answer Questions

1. What are synthetic auxins? Give examples.

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2. What is bolting? How can it be induced artificially?

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3. Bring out any two physiological activities of abscisic acid (ABA).

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4. What will you do to prevent leaf fall and fruit drop in plant ? Support your answer with reason.

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5. What are chemical messengers?

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6. Write the differences between endocrine and exocrine gland.

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7. What is the role of parathorone?

Watch Video Solution

8. What are the hormones secreted by posterior lobe of the pituitary gland? Mention the tissues on which they exert their effect

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9. Why are thyroid hormones referred as personality hormone?

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10. (i) Which hormone requires iodine for its formation ? What will happen if intake of iodine in our diet is low ?

(ii) What is the importance of raivater harvesting ?

(iii) What is colosturm ? How is milk production hormonally regulated ?

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Textbook Evaluation Long Answer Questions

1. (a) Name the gaseous plant hormone. Describe its three different actions in plants.

(b) Which hormone is known as stress hormone in plants ? Why?

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2. (a) Name the gaseous plant hormone. Describe its three different actions in plants.

(b) Which hormone is known as stress hormone in plants ? Why?

Watch Video Solution

3. Describe and experiment which demonstrates that growth stimulating hormone is produced at the tip of coleoptile.

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4. Write the physiological effects of gibberellins.

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5. Where are estrogens produced? What is the role of estrogens in the human body?

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6. (i) What are the conditions which occur due to lack of ADH and insulin? How are the conditions different from one another?

(ii) Write the events involved in the sexual reproduction of a flowering plant. Discuss the first event and write the types.

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Textbook Evaluation Higher Order Thinking Skills Hots

1. What would be expected to happen if

a. Gibberellin is applied to rice seedlings.

b. A rotten fruit gets mixed with unripe fruits.

c. When cytokinin is not added to culture medium

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4. A plant hormone was first discovered in Japan when rice plant were sufferring from Bakanae disease caused by Gibberella fujikoroi. Based on

this information answer the following questions.

(i) Identify the hormone involved in this process.

(ii) Which property of this hormone causes the disease?

(iii) Give two functions of this hormone.

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5. A plant hormone was first discovered in Japan when rice plant were sufferring from Bakanae disease caused by Gibberella fujikoroi. Based on this information answer the following questions.

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7. Senthil has high blood pressure, protruded eyeball and an increased body temperature. Name the endocrine gland involved and hormone secretion responsible for this condition

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8. Sanjay is sitting in the exam hall. Before the start of the exam, he sweats a lot, with increased rate of heart beat. Why does this condition occur?

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9. Susan's father feels very tired and frequently urinates. After clinical diagnosis he was advised to take an injection daily to maintain his blood glucose level. What would be the possible cause for this? Suggest preventive measures.

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Government Exam Questions Answers

1. Which one is referred as "Master Gland"?

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Additional Questions Answers Choose The Correct Answer

1. The term Auxin was coined by

A. Went

B. Kogl

C. Charles Darwin

D. Kurosawa

Answer: B

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2. Auxins were identified by _____.

A. Darwin

B. Kogl

C. Went

D. Funk

Answer: C

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3. _____ is essential for Morphogenesis.

A. Auxin and Gibberellin

B. Ethylene

C. Auxin and cytokinin

D. none of these

Answer: C

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4. _____ is a powerful inhibitor of lateral bud growth in Tomato.

A. Auxin

B. Cytokinin

C. ABA

D. Ethylene

Answer: C

Watch Video Solution

5. _____ induces bud dormancy towards approach of winter in trees.

A. Auxin

B. Ethylene

C. ABA

D. Cytokinin

Answer: C

Watch Video Solution

6. which one _____ is growth inhibitor.

A. Auxin

B. GA

C. Cytokinin

D. Ethylene

Answer: D

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7. _____ is not a function of thyroid.

A. BMR

B. Body temperature

C. Carbohydrate metabolism

D. Anti-allergic

Answer: D

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8. Which is called stress hormone?

A. Auxin

B. Gibberellin

C. Cytokinin

D. ABA

Answer: D

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9. Premature shedding is caused by _____.

A. auxin

B. Ethylene

C. ABA

D. Gibberellin

Answer: B

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10. _____ is a natural Auxin.

A. Phenyl Acetic Acid

B. Indole 3 Butyric Acid

C. α- Naphthalene Acetic Acid

D. Indole- 3- Propionic Acid

Answer: A

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11. Name the gaseous plant hormone.

A. Auxin

B. Ethylene

C. Cytokinin

D. Abscisic acid

Answer: B

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12. _____ promotes the development and enlargement of all tissues of the body.

A. GH

B. TSH

C. GTH

D. ACTH

Answer: A

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13. ..... is caused due to hypersecretion of growth hormone in children

A. Dwarfism

B. Acromegaly

C. Gigantism

D. Dysplasia

Answer: C

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14. Which is called stress hormone?

A. Auxin

B. Abscisic acid

C. Ethylene

D. Cytokinin

Answer: B

Watch Video Solution

15. _____ is found in the chloroplast of plants.

A. Auxin

B. Abscisic acid

C. Ethylene

D. Cytokinin

Answer: B

Watch Video Solution

16. _____ promotes the ripening of fruits.

A. Auxin

B. Abscisic acid

C. Ethylene

D. Cytokinin

Answer: C

Watch Video Solution

17. _____ is a powerful inhibitor of lateral bud growth in Tomato.

A. tomato

B. apple

C. mango

D. banana

Answer: A

Watch Video Solution

18. Auxins are efficient than gibberellins in inducing the formation of seedless fruits.

A. Auxin

B. Cytokinin

C. Ethylene

D. Abscisic acid

Answer: A

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19. The hormone _____ brings about powerful contraction of uterine muscles during child birth

A. oxytocin

B. Prolactin

C. FSH

D. GTH

Answer: A

Watch Video Solution

20. Dwarfism is caused by decreased secretion of _____ in children.

A. GH

B. FSH

C. GTH

D. ACTH

Answer: A

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21. Goitre is caused due to the inadequate supply of _____ in our diet.

A. calcium

B. iodine

C. magnesium

D. iron

Answer: B

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22. Thyroid gland requires _____ of iodine everyday for the production of thyroxine.

A. $120\mu g$

B. $110\mu g$

C. $100\mu g$

D. $150\mu g$

Answer: A

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23. Cytokinin is found abundantly in _____.

A. soya

B. coconut

C. sugarcane

D. carrot

Answer: B

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24. _____ is known as father of Endocrinology.

A. Thomas Addison

B. W.M. Bayliss

C. E.H. Startling

D. Frits Warmolt Went

Answer: A

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25. Name the hormone secreted by Thymus gland and mention two functions of that hormone.

A. Thymosin

B. Estrogen

C. Testosterone

D. Progestrone

Answer: A

26. Glucocorticiods secreted by the zona fasciculata are _____ and _____.

A. aldosterone

B. testosterone

C. estrogen

D. Progestrone

Answer: A

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27. Deficiency of insulin causes_____.

A. diabetes mellitus

B. tetany

C. thyroid dysfunction

D. cretinism

Answer: A

Watch Video Solution

28. _____ first crystallised thyroxine hormone.

A. Edward C.Kendal

B. George Barger

C. W.M. Bayliss

D. E.H. Startling

Answer: A

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29. The other name of Antidiuretic hormone is _____.

A. vasopressin

B. oxytocin

C. prolactin

D. growth hormone

Answer: A

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30. _____ helps to convert glucose to glycogen in liver.

A. Glucogon

B. Epinephrine

C. insulin

D. Aldosterone

Answer: C

Watch Video Solution

31. Glucagon helps in the breakdown of glycogen to glucose in the liver

A. Ephinephrine

B. Norepinephrine

C. Glucagon

D. Insulin

Answer: C

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32. The _____ secrete glucagon.

A. Alpha cells

B. Beta cells

C. Leydig cells

D. Chromaffin cells

Answer: A

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Additional Questions Answers Fill In The Blanks

1. The term Auxin was coined by

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2. An example of a natural auxin is _____.

Watch Video Solution

3. Went experimented with _____ of Avena plants.

Watch Video Solution

4. What are chemical messengers?

Watch Video Solution

5. _____ is a phytohormone.

Watch Video Solution

6. Auxin prevents the formation of _____.

Watch Video Solution

7. Cytokinin was first isolated from_____.

Watch Video Solution

8. _____ is the cytokinin got form maize (Zea mays).

Watch Video Solution

9. _____ are more efficient than auxins in promotting parthenocrapy.

Watch Video Solution

10. _____ is known as father of Endocrinology.

Watch Video Solution

11. Bayliss and Startling introduced the term_____.

Watch Video Solution

12. The anterior pituitary is also called_____.

Watch Video Solution

13. The posterior pituitary is also called_____.

Watch Video Solution

14. An excessive secretion of growth hormone in adults lead to.....

Watch Video Solution

15. Prolactin is also called_____.

Watch Video Solution

16. _____ is a hormone produced by the pineal gland.

Watch Video Solution

17. _____ is known as time messenger.

Watch Video Solution

18. _____is also known as ADH.

Watch Video Solution

19. Deficiency of ADH causes_____.

Watch Video Solution

20. Rupture of graafian follicle to produce ovum is called_____.

Watch Video Solution

21. Less secretion of growth hormone leads to _____.

Watch Video Solution

22. The two lobes of thyroid glands are connected by means of a narrow band of tissue called .....

Watch Video Solution

23. The glandular follicles of thyroid gland are filled with colloid material called.....

Watch Video Solution

24. thyroxine contains an aminoacid called_____.

Watch Video Solution

25. _____ maintains BMR of the body.

Watch Video Solution

26. Why are thyroid hormones referred as personality hormone?

Watch Video Solution

27. People living in hilly regions suffer from _____ due to iodine deficiency.

Watch Video Solution

28. Lack of skeletal development caused due to thyroid dysfunction is called_____.

Watch Video Solution

29. Deficiency of thyroid hormone in adults causes_____.

Watch Video Solution

30. _____ is also called exopthalmic Goitre.

Watch Video Solution

31. Excess secretion of thyroxine leads to _____.

Watch Video Solution

32. Hormone_____ regulates calcium levels in the body.

Watch Video Solution

33. Removal of parathyroids results in _____.

Watch Video Solution

34. _____ is a dual gland.

Watch Video Solution

35. Human insulin was first discovered by _____.

Watch Video Solution

36. The alpha cells of islets of langerhans secrete .....

Watch Video Solution

37. Insulin helps in the conversion of _____ into glycogen.

Watch Video Solution

38. _____ hormone increases blood glucose levels.

Watch Video Solution

39. The hormones secreted by the adrenal cortex are.....

Watch Video Solution

40. _____ is a mineralocorticiod.

Watch Video Solution

41. _____ is called life saving hormone.

Watch Video Solution

42. Adrenalin and nonadrenalin are called _____ hormones.

Watch Video Solution

43. Thymus is partly an endocrine gland and partly a lymphoid gland.

Watch Video Solution

44. _____ gland controls immunological functions.

Watch Video Solution

45. Thymus gland procues a hormone called_____.

Watch Video Solution

46. The chief cells of parathyroid glands are.....

Watch Video Solution

47. The function of control and coordination in plants is performed by chemical substances produced by the plant called_____.

Watch Video Solution

48. During water stress and drought conditions.....causes stomatal closure.

Watch Video Solution

49. .....is a gaseous plant hormone, mainly concerned with maturation and ripening of fruits

Watch Video Solution

50. Ethylene promotes the _____ of fruits.

Watch Video Solution

51. Auxins promote_____ in stems and coleptiles.

Watch Video Solution

52. _____ promotes growth of root only at low concentrations.

Watch Video Solution

53. In most plants, the terminal bud suppresses the development of lateral buds. What is this phenomenon called. Name the phytohormone that promote this phenomenon.

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54. _____ is found abundantly in liquid endosperm of coconut.

Watch Video Solution

55. _____ promotes cell division in the presence of Auxin

Watch Video Solution

56. Cytokinin promote the growth of lateral buds even in the presence of apical buds

Watch Video Solution

57. cytokinin delays the process of _____.

Watch Video Solution

58. Gibberellins are the most abundantly found_____.

Watch Video Solution

59. _____ are plant hormones that promote cell division.

Watch Video Solution

60. Internodal elongation in rice was caused by fungus_____.

Watch Video Solution

61. gibberellins on plants stimulate extraordinary elongation of _____.

Watch Video Solution

62. Treatment of rosette plants with gibberellin induces sudden_____.

Watch Video Solution

63. .... promotes the production of male flowers in Cucurbits.

Watch Video Solution

64. Which breaks dormancy of potato tuber?

Watch Video Solution

65. Auxins are efficient than gibberellins in inducing the formation of seedless fruits.

Watch Video Solution

66. ..... Is the powerful growth inhibitor .

Watch Video Solution

67. _____ regulates abscission and dormancy in plants .

Watch Video Solution

68. Why is Abscisic acid also known as stress hormone?

Watch Video Solution

69. Ethylene stimulates the formation of _____ in leaves.

Watch Video Solution

70. _____ and _____ glands are two kinds of glands found in animals.

Watch Video Solution

71. Endocrine glands are called_____.

Watch Video Solution

72. The branch of biology which deals with the study of the endocrine glands and its physiology is

known as _____.

Watch Video Solution

73. _____ is known as father of Endocrinology.

Watch Video Solution

74. The two lobes of thyroid glands are connected by means of a narrow band of tissue called .....

Watch Video Solution

75. Dwarfism is caused by decreased secretion of _____ in children.

Watch Video Solution

76. _____ forms the major endocrine gland in most vertebrates.

Watch Video Solution

77. _____ gland is a pea shaped compact mass of cells located at the base of the midbrain.

Watch Video Solution

78. _____ hormone controls cell metabolism.

Watch Video Solution

79. The anterior pituitary is also called_____.

Watch Video Solution

80. _____ hormone initiates the growth of ovarian follicles.

Watch Video Solution

81. Deficiency of antiduiretic hormone causes increased_____ output.

Watch Video Solution

82. The glandular follicles of thyroid gland are filled with colloid material called.....

Watch Video Solution

83. _____ and _____ are involved in the formation of thyroid hormone.

Watch Video Solution

84. _____ is also known as personality hormone.

Watch Video Solution

85. Hormone _____ regulates calcium and phosphorus metabolism in the body.

Watch Video Solution

86. _____ is exocrine and endocrine in nature.

Watch Video Solution

87. Exocrine pancreas secretes _____.

Watch Video Solution

88. Endocrine portion of the pancreas is made up of _____.

Watch Video Solution

89. Alpha cells secretes_____.

Watch Video Solution

90. Beta cells secrets_____.

Watch Video Solution

91. Insulin helps in the conversion of _____ into glycogen.

Watch Video Solution

92. The hormones secreted by the adrenal cortex are.....

Watch Video Solution

93. Glucocorticiods secreted by the zona fasciculata are _____ and _____.

Watch Video Solution

94. The adrenal medulla is composed of .....cells.

Watch Video Solution

95. Hormones of the adrenal medulla are called as _____ hormones.

Watch Video Solution

96. Adrenalin promotes the conversion of glycogen to glucose in _____ and _____.

Watch Video Solution

97. Adrenalin causes dilation of the _____.

Watch Video Solution

98. Most of the actions of norepinephrine hormone are similar to _____.

Watch Video Solution

99. Which hormone is referred as "flight and fight" hormone ?

Watch Video Solution

100. _____ is produced by the graafian follicles of the ovary.

Watch Video Solution

101. The _____ cells of the testis are endocrine in nature.

Watch Video Solution

102. True or False - If false, give the correct statement :

Leydig cells secretes the female sex hormone called Estrogen.

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103. _____ prepares the uterus for the implantation of the embryo.

Watch Video Solution

104. Thymus is partly an endocrine gland and partly a lymphoid gland.

Watch Video Solution

105. The meaning of the word 'hormone ' in greek is _____.

Watch Video Solution

106. Unilateral growth and curvature of canary grass was done by

Watch Video Solution

107. Inner part of the adrenal gland is the_____.

Watch Video Solution

108. _____ is also called as supra renal gland.

Watch Video Solution

109. _____ breaks the dormancy of buds, seeds and storage organs.

Watch Video Solution

110. Insulin _____ the concentration of glucose in the blood.

Watch Video Solution

111. Deficiency of insulin causes_____.

Watch Video Solution

112. Adrenal glands are located above each_____.

Watch Video Solution

113. The outer part of the adrenal gland is the _____.

Watch Video Solution

114. The gonads also serve as_____ glands.

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Additional Questions Answers State Whether The Following Statements Are True Or False Correct The

False Statement

1. Auxins induce root formation at high concentrations.

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2. Ethylene breaks the dormancy in buds.

Watch Video Solution

3. ABA is a growth promoting hormone.

Watch Video Solution

4. Deficiency of thyroid hormones in adults causes Grave's disease.

Watch Video Solution

5. Adrenaline promotes conversion of glycogen to glucose in liver.

Watch Video Solution

6. Glucocorticoids stimulate the formation of glucose from glycogen in the liver.

Watch Video Solution

7. What is corpus luteum?

Watch Video Solution

8. Testosterone is essentail for formation of placenta.

Watch Video Solution

9. Assertion (A) : Abscission is a physiological process of shedding of organs like leaves, flowers fruits and seeds from the parent plant body.

Reason (R) : When leaves, flowers, fruits and seeds are removed, the plant seals off its vascular system to prevent loss of water and nutrients.

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10. Write the name of a synthetic auxin.

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11. True or False - If false, give the correct statement

:

Leydig cells secretes the female sex hormone called

Estrogen.

Watch Video Solution

12. Thymosin is the hormone secreted by thymus.

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13. What is spermatogenesis? Briefly describe the process of spermatogenesis.

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14. Glucocorticoids are the hormones of Adrenal Medulla.

Watch Video Solution

15. Insulin increases blood glucose levels.

Watch Video Solution

16. Why is cortisol known as life saving hormone ?

17. Abscisic acid is a gaseous plant hormone.

Additional Questions Answers Match The Following

1. Match the following columns

A)	Glucocorticoids	1)	Muscle spasm
B)	Epinephrine	2)	Islets of Langerhans
C)	Tetany	3)	Adrenaline
D)	Pancreas	4)	Anti - inflam matory

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2. Match the following columns

A)	Alpha cells	1)	Insulin
B)	Beta cells	2)	Glucagon
C)	Chromaffin cells	3)	Testes
D)	Leydig cells	4)	Adrenal Medulla

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3. Match the following columns

A)	Edward C. Kendal	1)	Father of Endocrinology
B)	Fredrick Banting	2)	Hormone
C)	E. H. Starling	3)	Human insulin
D)	Thomas Addison	4)	Crystallised thyroxine hormone

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4. Match the following columns

A)	Ovary	1)	Marked swelling in the neck
B)	Isthmus	2)	Secrete the female sex hormones.
C)	Melatonin	3)	Two lobes are connected by means of a narrow band of tissue.
D)	Goitre	4)	Hormone produced by the pineal gland at night.

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5. Match the following columns

A)	Epinephrine	1)	Regulate carbohydrate, protein and fat metabolism.
B)	Glucocorticoids	2)	Promotes the conversion of glycogen to glucose in liver and muscles.
C)	Mineralocorticoids	3)	Influences the process of spermato genesis.
D)	Testosterone	4)	It helps to absorb sodium ions from the renal tubules.

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6. Match the following columns

A)	Auxin	1)	Growth inhibitor
B)	GA	2)	Bolting
C)	ABA	3)	Tissue culture
D)	Ethylene	4)	Stress hormone

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7. Match the following columns

A)	IBA	1)	Synthetic auxin
B)	Zeatin	2)	Coleoptile
C)	Gibberellic acid	3)	Cell division
D)	IAA	4)	Rice

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8. Match the following columns:-

A)	Acromegaly	1)	Thyroid
B)	Cretinism	2)	Pituitary
C)	Tetany	3)	Follicle
D)	Ovulation	4)	Parathyroid

Watch Video Solution

Additional Questions Answers Asserton And Reason

1. Assertion (A) : Insulin controls blood glucose levels.

Reason (R) : A balance between insulin and glucagon will prevent diabetes mellitus.

A. Both Assertion and Reason are true and Reason is correct explanation of Assertion.

B. Both Assertion and Reason are true but Reason is not the correct explanation of Assertion.

C. Assertion is true and Reason is false.

D. Both Assertion and Reason are false.

Answer:

2. Assertion (A) : Auxins help in apical dominance.

Reason (R) : They induce elongation of stems.

A. Both Assertion and Reason are true and Reason is correct explanation of Assertion.

B. Both Assertion and Reason are true but Reason is not the correct explanation of Assertion.

C. Assertion is true and Reason is false.

D. Both Assertion and Reason are false.

Answer:

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3. Assertion (A) : Cytokinins induce parthenocrapy.

Reason (R) : They insulin cell division.

A. Both Assertion and Reason are true and Reason is correct explanation of Assertion.

B. Both Assertion and Reason are true but Reason is not the correct explanation of Assertion.

C. Assertion is true and Reason is false.

D. Both Assertion and Reason are false.

Answer:

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4. Assertion (A) : Epinephrine and Norepinephrine are together called as " Emergency hormones".

Reason (R) : It is produced during conditions of stree and emotion.

A. Both Assertion and Reason are true and Reason is correct explanation of Assertion.

B. Both Assertion and Reason are true but Reason is not the correct explanation of

Assertion.

C. Assertion is true and Reason is false.

D. Both Assertion and Reason are false.

Answer:

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5. Assertion (A) : GH promotes the development and enlargement of all tissues of the body.

Reason (R) : Oversecretion of growth hormone leads to Gigantism in children.

A. Both Assertion and Reason are true and Reason is correct explanation of Assertion.

B. Both Assertion and Reason are true but Reason is not the correct explanation of Assertion.

C. Assertion is true and Reason is false.

D. Both Assertion and Reason are false.

Answer:

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Additional Questions Answers Analogy Type Questions Identify The First Words And Their Relationship And Suggest A Suitable Word For The Fourth Blanks

1. Insulin : Diabetes mellitus :: Vasopressin :: _____.

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2. ACTH : Adrenal cortex :: TSH :_____.

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3. Cretinism : Thyroid :: Dwarfism _____.

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4. Natural Auxin : Indole -3- Acetic Acid :: Synthetic Auxin :_____.

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5. Glucocorticoids : Zona Fasciculate :: Mineralocorticoids :_____.

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6. Epinephrine : Adrenaline :: Norepinephrine : _____.

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7. Alpha cells : Glucagon :: Beta cells :_____

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Additional Questions Answers Answer In A Word Or Sentence

1. Other name for plant hormone.

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2. What are chemical messengers?

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3. A natural Auxin.

Watch Video Solution

4. Write the name of a synthetic auxin.

Watch Video Solution

5. Suppression of lateral bud growth by Auxin.

Watch Video Solution

6. Production of seedless fruits.

Watch Video Solution

7. Which hormone is maximum in coconut milk?

Watch Video Solution

8. Formation of new organs from callus in tissue culture is known as_____

Watch Video Solution

9. Delay in process of aging in plants caused by cytokinin is called_____

Watch Video Solution

10.

(1)	Bakanae	(i)	Name as gibberllins
(2)	Brain et al.,	(ii)	fungus Gibberella fujikuroi
(3)	Yabuta	(iii)	foolish seedling disease
(4)	Kurosawa	(iv)	Gibberellic acid

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11. Sudden elongation of stem followed by flowering is called

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12. Which is called stress hormone?

Watch Video Solution

13. Assertion (A) : Abscission is a physiological process of shedding of organs like leaves, flowers fruits and seeds from the parent plant body.

Reason (R) : When leaves, flowers, fruits and seeds are removed, the plant seals off its vascular system to prevent loss of water and nutrients.

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14. Aging of leaves.

Watch Video Solution

15. Name the gaseous plant hormone.

Watch Video Solution

16. Comment on seed dormancy and its reason.

Watch Video Solution

17. What are Ductless glands? Why are they called so?

Watch Video Solution

18. Testis and ovary are collectively called.

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19. The other name for pituitary gland is .....

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20. Which endocrine gland is called "Master gland" ? Why?

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21. Diseases in which individuals with abnormal increase in height are seen in _____

Watch Video Solution

22. Rupture of graafian follicle to produce ovum is called_____.

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23. True or False - If false,give the correct statement

: Prolactin is also known as lactogenic hormone .

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24. Define:-

Diabetes insipidus

Watch Video Solution

25. Why are thyroid hormones referred as personality hormone?

Watch Video Solution

26. Thyroid gland requires _____ of iodine everyday for the production of thyroxine.

Watch Video Solution

27. Explain the Glands located on the thyroid gland.

Watch Video Solution

28. Disease characterised by muscle spasm, sustained contraction of muscles in face, larynx etc is known as_____

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29. Explain the endocrine role of pancreas

Watch Video Solution

30. Which is also known as Supra renal glands.

Watch Video Solution

31. Why is cortisol known as life saving hormone ?

Watch Video Solution

32. Which hormone is referred as "flight and fight" hormone ?

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33. Fill in the blanks : ..... is the male sex hormone .

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34. Which is known as Female sex hormone?

Watch Video Solution

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

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36. Endocrine gland formed from ruptured follicle is_____

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Additional Questions Answers Very Short Answers

1. What is IAA ?

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2. What is apical dominance.

Watch Video Solution

3. What is Richmond Lang effect?

Watch Video Solution

4. What is parthenocarpy?

Watch Video Solution

5. Where is pituitary gland located ?

Watch Video Solution

6. With a neat labelled diagram, explain the pituitary gland and the types of hormones.

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7. What is melatonin ?

Watch Video Solution

8. What is BMR ?

Watch Video Solution

9. Define:-

Myxoedema

Watch Video Solution

10. Name the types of cells in Islets of Langerhans.

Watch Video Solution

11. Name the three layers of adrenal cortex.

Watch Video Solution

12. List the functions of Progesterone.

Watch Video Solution

13. (a) Name the gaseous plant hormone. Describe its three different actions in plants.

(b) Which hormone is known as stress hormone in plants ? Why?

Watch Video Solution

14. Why is cortisol known as life saving hormone ?

Watch Video Solution

15. Draw a diagram to show the location of Adrenal gland.

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Additional Questions Answers Give Reasons For The Following Statements

1. goitre is a marked swelling in the neck.

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2. Progesterone is responsible for the premenstrual changes of the uterus.

Watch Video Solution

3. Which hormone is referred as "flight and fight" hormone ?

Watch Video Solution

4. Thymus gland is a lymphoid gland.

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Additional Questions Answers Short Answers

1. Explain the physiological effects of ABA.

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2. Explain the physiological effects of ethylene.

Watch Video Solution

3. Write a note on hormones of posterior pituitary.

Watch Video Solution

4. Write a note on Parthenocarpy gland.

Watch Video Solution

5. Write a note on mineralocorticoids.

Watch Video Solution

6. List the functions of hormones of adrenal medulla.

Watch Video Solution

7. Write a note on an thymus gland.

Watch Video Solution

Additional Questions Answers Long Answers

1. Write the physiological effect of Auxin.

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2. Briefly explain the structure of thyroid gland

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3. What are the functions of thyroid hormones? Write any three points.

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4. Write a note on thyroid Dysfunctions.

Watch Video Solution

5. Describe the role of pancreas in maintenance of blood sugar level.

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6. What are the hormones secreted by posterior lobe of the pituitary gland? Mention the tissues on which they exert their effect

Watch Video Solution

7. explain the role of growth hormone produced by pituitary gland.

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Additional Questions Answers Higher Order Thinking Skills Hots

1. Placing a ripe apple in a bag of green bananas will cause them to ripen quickly. This occurs , because the apple :

A. Absorbs cytokinin

B. Forms digestive enzymes

C. Lacks Auxins

D. Produces ethylene

Answer:

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2. Which one of the plant growth regulators would you use if you are asked to:

(a) Induce rooting in a twig

(b) Quickly ripen a fruit

(c) Delay leaf senescence

(d) Induce growth in axillary buds

(e) 'Bolt' a rosette plant

(f) Induce immediate stomatal closure in leaves.

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3. What would happen if the parathyroid gland was removed?

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4. What will happen , if the pancreas of a person stop functioning ?

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Additional Questions Answers Value Based Questions

1. In botanical gardens and tea gardens the gardeners trim the plants regularly so that they remain bushy. Write the scientific explanation of this practice.

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Additional Questions Answers Expand The Following Abbreviation

1. Expand the ABA

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2. Expand the IAA

Watch Video Solution

3. Expand the 2,4 D

Watch Video Solution

4. Expand the PAA

Watch Video Solution

5. Expand the IBA

Watch Video Solution

6. Expand the NAA

Watch Video Solution

7. Expand the 2,4,5-t

Watch Video Solution

8. Expand the GH

Watch Video Solution

9. Expand the TSH

Watch Video Solution

10. Expand the ACTH

Watch Video Solution

11. Expand the GTH

Watch Video Solution

12. Expand the FSH

Watch Video Solution

13. Expand the ADH

Watch Video Solution

14. Expand the LH

Watch Video Solution

15. Expand the PRL

Watch Video Solution

16. Expand the T3

Watch Video Solution

17. Expand the T4

Watch Video Solution

18. Expand the BMR

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