BIOLOGY

NCERT - NCERT Biology(Tamil)

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:

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

A. Cytokinin

B. Auxin

C. Gibberellin

D. Ethylene

Answer:

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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:

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4. Avena coleoptile test was conducted by

A. Darwin

B. N. Smit

C. Paal

D. F.W. Went

Answer:

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

A. Auxin

B. Cytokinin

C. Gibberellins

D. Ethylene

Answer:

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6. LH is secreted by

A. Adrenal gland

B. Thyroid gland

C. Anterior pituitary

D. Hypothalamus

Answer:

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7. Indentify the exocrine gland

A. Pituitary gland

B. Adrenal gland

C. Salivary gland

D. Thyroid gland

Answer:

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

A. Pineal gland

B. Pituitary gland

C. Thyroid gland

D. Adrenal gland

Answer:

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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

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3. _____ induces stomatal closure

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4. Gibberelins induce stem elongation in _____ plants.

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

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

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7. In the islets of Langerhans, beta cells secrete .....

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8. 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 Matching

1. Match Column I with Columns 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.

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6. Estrogen is secreted by corpus luteum.

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Textbook Evaluation Assertion And Reasoning

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 but 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 but R is false

D. Both A and R are false

Answer:

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 but 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?

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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.

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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?

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

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3. Write the physiological effects of gibberellins.

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

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5. (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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3. 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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6. 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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7. 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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8. 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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