

NEET - C15 - PLANT GROWTH AND DEVELOPMENT

1. With respect to photoperiodism, these are long day plants.

- A. Wheat, oat, soybean
 B. Wheat, Xanthium, paddy
 C. Wheat, poppy, soybean
 D. Wheat, poppy, beet

2. Short day plant is

- A. Xanthium
 B. Pisum
 C. Cucumis
 D. Avena

3. The movement of hairs in *Drosera* is

- A. thermonastic
 B. thigmonastic
 C. seismonastic
 D. photonastic

4. Which of the following movements in plants is due to the increased concentration of auxin?

- A. Movement of shoot towards the source of light
 B. Nyctinasty
 C. Movement of sunflower towards sun
 D. All of the above

5. Which of the following is not an influence of auxin?

- A. Apical dominance
 B. Parthenocarpy
 C. Tropic movements
 D. Bolting

6. Match the column I and column II and select the correct option.

Column I	Column II
A. Auxin	1. Herring sperm DNA
B. Cytokinin	2. Inhibitor of growth
C. Gibberellin	3. Apical dominance
D. Ethylene	4. Epinasty
E. Abscisic acid	5. Induces amylase synthesis

- A. a-3, b-1, c-5, d-2, e-2
 B. a-4, b-5, c-1, d-3, e-2
 C. a-2, b-1, c-5, d-3, e-4
 D. a-3, b-1, c-5, d-2, e-4

7. Bolting may be induced by

- A. gibberellins
 B. ABA
 C. auxin
 D. cytokinin

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8. The natural plant hormone isolated from com kernels and coconut milk is

- A. florigen
- B. GA₃
- C. free auxins
- D. zeatin

9. Auxanometer is used to measure

- A. the growth in length of a plant organ
- B. the growth in breadth of a plant organ
- C. population of the pests attacking a plant
- D. Both (a) and (b)

10. Which type of tropism is shown by tulip and sunflower respectively?

- A. Thigmonasty and photonasty
- B. Hydronasty and thermonasty
- C. Thermonasty and photonasty
- D. Hydronasty and photonasty

11. Which of the following movements is induced by injury?

- A. Aerotropism
- B. Geotropism
- C. Tromonasty
- D. Traumatropism

12. Identify two physiological processes induced by two different phytohormones having a common precursor, which is formed due to the catalytic activity of pyruvic dehydrogenase complex.

- I. More female flowers in cucumber.
- II. α -amylase production in barley grain.
- III. Acceleration of fruit ripening in tomato.
- IV. Delay in sprouting of potato tubers.

The correct combination is

- A. I and II
- B. I and III
- C. II and IV
- D. III and IV

13. Programmed cell death is scientifically termed as

- A. autotomy
- B. cell lysis
- C. apoptosis
- D. None of these

14. Assertion Decapitation of shoot tip in plants inhibits the growth of their lateral buds.

Reason Accumulation of auxins in lateral buds causes inhibition of their growth.

- 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 but Reason is false
- D. Assertion is false but Reason is true

15. In photoactive plants, during day time ionic flux of guard cell is directly the following involves the expenditure of energy.

- A. Outward movement of malate
- B. Inward movement of potassium ions
- C. Outward movement of protons
- D. Inward movement of chloride

16. The phytohormone that induces cell elongation is known to be produced by a fungus. The asexual stage of this fungus is called

- A. Rhizopus sexualis
- B. Fusarium moniliformae
- C. Gibberella fujikuroi
- D. Fusarium oxysporum

17. Genetically dwarf plants can be induced to grow tall by using

- A. gibberellins
- B. phycobillins
- C. auxins
- D. cytokinins

18. Which plant hormone promotes seed dormancy, bud dormancy and causes stomatal closure?

- A. IAA
- B. Abscisic acid
- C. GA
- D. Cytokinin

19. Auxins promote

- A. cell growth and enlargement
- B. cambial activity
- C. apical dominance
- D. All of the above

20. Which of the following flowers shows nyctinastic movement?

- A. Pentapetes
- B. Albizzia lebbek
- C. Mimosa pudica
- D. Bryophyllurn

21. Assertion A farmer does not prefer to grow tobacco plant under long day conditions.

Reason Tobacco is a short day plant.

- A. Both Assertion and Reason are true and Reason is the correct explanation of Assertion
- B. Both Assertion and Reason are true but Reason is not the correct explanation of Assertion
- C. Assertion is true but Reason is false
- D. Assertion is false but Reason is true

22. Auxin causes

- A. growth of apical bud
- B. growth of lateral bud
- C. seed dormancy
- D. fall of leaf

23. Which of the PGRs induces parthenocarp in tomatoes?

- A. Auxin
- B. Gibberellin
- C. Cytokinin
- D. Ethylene

24. Ethylene is connected with

- A. aerobic respiration
- B. climacteric
- C. anaerobic
- D. fermentation

25. How does pruning help in making the hedge dense?

- A. It induces the differentiation of new shoots from the rootstock
- B. It frees axillary buds from apical dominance
- C. The apical shoot grows faster after pruning
- D. It releases wound hormones

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1. D	2. A	3. B	4. A	5. D
6. A	7. A	8. D	9. A	10. C
11. D	12. D	13. C	14. D	15. C
16. B	17. A	18. B	19. D	20. B
21. A	22. A	23. A	24. B	25. B

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