

NEET BIOLOGY

Topic: Plant Growth & Development

1. The phytohormone that helps in germination of seed, is
 - (a) ABA
 - (b) auxin
 - (c) gibberellin
 - (d) cytokinin
2. 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)
3. Bolting may be induced by
 - (a) gibberellins
 - (b) ABA
 - (c) auxin
 - (d) cytokinin
4. Phototropic curvature is the result of uneven distribution of
 - (a) gibberellin
 - (b) phytochrome
 - (c) cytokinin
 - (d) auxin
5. Apical dominance is caused by
 - (a) auxin
 - (b) cytokinin
 - (c) ethylene
 - (d) gibberellins

6. One of the synthetic auxin is
- (a) NAA (b) IAA
(c) GA (d) IBA
7. Mobilization of stored food in germinating seed is triggered by
- (a) ABA (b) GA
(c) cytokinin (d) ethylene
8. Hormone replacing the requirement of vernalization is
- (a) ethylene (b) auxin
(c) gibberellins (d) cytokinin
9. Hormone inducing fruit ripening is
- (a) ethylene (b) cytokinin
(c) gibberellic acid (d) abscisic acid
10. Name of a gaseous plant hormone is
- (a) IAA (b) gibberellin
(c) ethylene (d) abscisic acid
11. The maximum growth rate occurs in
- (a) stationary phase (b) senescent phase
(c) lag phase (d) exponential phase
12. The bioassay of auxin is
- (a) Avena curvature test (b) callus formation
(c) culture of fungus (d) seed dormancy
13. Genetically dwarf plants can be induced to grow tall by using
- (a) gibberellins (b) phytycobillins
(c) auxins (d) cytokinins

14. Which plant hormone promotes seed dormancy, bud dormancy and causes stomatal closure?
- (a) IAA (b) Absciscic acid
(c) GA (d) Cytokinin
15. The hormone present in the liquid endosperm of coconut is
- (a) cotykinin (b) gibberellin
(c) ethylene (d) auxin
16. Florigen is produced in the region of
- (a) leaves (b) fruit
(c) root (d) trunk
17. Hydroponics is a system of growing plants in
- (a) soil less culture or solution culture
(b) acidic soils
(c) soil less culture with alkaline pH
(d) soil less culture with acidic pH
18. IAA is derived from or which of the following is involved in the synthesis of a plant hormone IAA and vasoconstrides cerotonin?
- (a) Tryptophan (b) Tyrosine
(c) Phenylalanine (d) None of these
19. Which of the following is incorrectly matched?
- (a) Explant - Excised plant part used for callus formation
(b) Cytokinins - Root initiation in callus
(c) Somatic - Embryo produced from a embryo vegetative cell
(d) Callus - Undifferentiated mass of cells

20. Phytohormone commonly called stress hormone is
- (a) auxin (b) abscisic acid
(c) gibberellin (d) cytokinins
21. An enzyme that can stimulate germination of barley seeds is
- (a) α - amylase (b) lipase
(c) protease (d) invertase
22. Which of the following is not an influence of auxin?
- (a) Apical dominance (b) Parthenocarpy
(c) Tropic movements (d) Bolting
23. What helps in flowering?
- (a) Cytochrome (b) ABA
(c) Phytochrome (d) Ethylene
24. The chemical nature of gibberellins is
- (a) acidic (b) alkaline
(c) proteinaceous (d) amines
25. Growth plotted against time gives a
- (a) parabolic curve (b) sigmoid curve
(c) upright line (d) horizontal line
26. Which is used as weedicide?
- (a) 2, 4-D (b) IBA
(c) IAA (d) ABA
27. Photoperiodism was first characterized in
- (a) tobacco (b) potato
(c) tomato (d) cotton

28. The response of different organisms to environment rhythms of light and darkness, is called
- (a) phototropism (b) phototaxis
(c) photoperiodism (d) vernalization
(e) thermotaxis
29. Induction of flowering by low temperature treatment is
- (a) vernalization (b) cryobiology
(c) photoperiodism (d) pruning
30. Importance of day length in flowering of plants was first shown in
- (a) Lemna (b) tobacco
(c) cotton (d) Petunia

ANSWER KEY

Que.	1	2	3	4	5	6	7	8	9	10
Ans.	C	A	A	D	A	A	B	C	A	C
Que.	11	12	13	14	15	16	17	18	19	20
Ans.	D	A	A	B	A	A	A	A	B	B
Que.	21	22	23	24	25	26	27	28	29	30
Ans.	A	D	C	A	B	A	A	C	A	B