

Growth and Growth regulators

1. Auxins causes
 - a) Variation
 - b) Crossing over
 - c) Mutation
 - d) Apical dominance
2. Indole butyric acid is a
 - a) Natural auxin
 - b) Natural Gibberellin
 - c) Synthetic auxin
 - d) Synthetic gibberellin
3. Hormone used to induce sprouting in tubers, rhizomes, corms and bulbs is
 - a) ABA
 - b) NAA
 - c) IBA
 - d) ethylene
4. Vascular cambium involved in
 - a) Secondary growth
 - b) Primary growth
 - c) Tertiary growth
 - d) Quaternary growth
5. BAP is a
 - a) Synthetic auxin
 - b) Synthetic gibberellin
 - c) Synthetic cytokinin
 - d) Synthetic ethylene
6. Phytohormones are called
 - a) Plant hormones
 - b) Growth regulators
 - c) Both a and b
 - d) Growth inhibitors
7. Parthenocarpic fruits can be produced by the application of
 - a) Auxin
 - b) Cytokinin
 - c) ABA
 - d) both 1 and 2
8. Bakane disease of paddy is caused by
 - a) *Gibberella fuzikoro*
 - b) *Cercospora*
 - c) Protozoa
 - d) None of the above
9. Premature fruit drop is prevented by
 - a) IAA
 - b) IBA
 - c) NAA
 - d) ABA

10. Match the items given under column I with those under column II and find out the correct combination

I

II

- | | |
|-----------------------|-------------------------|
| A. Auxin | p. bolting |
| B. Gibberellin | q. Cell differentiation |
| C. Cytokinin | r. Ripening of fruits |
| D. Ethylene | s. Abscission |
| | t. Parthenocarp |
| a) A-t, B-s, C-p, D-q | b) A-t, B-p, C-q, D-s |
| c) A-t, B-p, C-q, D-r | d) A-t, B-p, C-s, D-q |

11. Bakane disease is associated with the discovery of

- a) DNA b) RNA c) Virus d) GA

12. The liquid endosperm of coconut contains

- a) Cytokinin b) Ethylene
c) Gibberellin d) Auxin

13. Most commonly used hormone for fruit ripening is

- a) 2, 4, 5-T b) 2, 4-D
c) Ethylene d) Methylene

14. Axillary buds are removed to promote

- a) The number of flowers
b) The growth of lateral branches
c) The petal colour
d) The sepal size

15. Which of the following is a growth promoting hormone in plants?

- a. 2-4 dichlorophenoxy acetic acid
b. Absciscic acid
c. Ethylene
d. None of the above

16. Which among the following is a naturally produced phytohormone?

- a. Indole 3-acetic acid
b. Pomalin
c. NAA
d. Ethaphon

17. The ability of cytokinins to delay the process of ageing in plant organs and tissues is also known by this name:

- a) Abscission b) Apical dominance
c) Richmond and Lang effect d) Epinasty

18. The irreversible increase in size and mass of the plant body with respect to time is called

- a) Photosynthesis b) Growth
c) Photoperiodism d) Geotropism

19. The extreme tip of root and shoot having cell division is composed of
 - a) Sclerenchyma cells
 - b) Meristematic cells
 - c) Lignified cells
 - d) Mature cells
20. The total period of time of lag phase, log phase and steady phases during which growth takes place is called
 - a) Sigmoid curve
 - b) Growth curve
 - c) Grand period of growth
 - d) Bell shaped curve
21. The phenomenon of elongation of condensed internode is called
 - a) Dormancy
 - b) Bolting
 - c) Parthenocarp
 - d) Senescence
22. The growth promoting hormones promoting cell division are called
 - a) Cytokinins
 - b) Gibberellins
 - c) Ethylene
 - d) Abscissic acid
23. Which one of the following functions as stress hormone and induces the closing stomata during period of water stress
 - a) Abscissic acid
 - b) Ethylene
 - c) Kinetin
 - d) IAA
24. Delayed senescence is also called as
 - a) Bolting
 - b) Chlorosis
 - c) Richmond and Lang effect
 - d) Parthenocarp
25. Gibberellin promotes
 - a) Genetically dwarf plant to grow normally
 - b) Root formation
 - c) Cell division
 - d) Closure of stomata
26. Auxin is not
 - a) A promoter
 - b) involved in apical dominance
 - c) Prevents abscission
 - d) Inhibitor hormone
27. ABA
 - a) Inhibits cell division
 - b) Promotes cell division
 - c) Promotes delay in senescence
 - d) Promotes morphogenesis
28. The term cytokinin was introduced by
 - a) Miller
 - b) Cross
 - c) Yabuta
 - d) Letham
29. Sweetness is increased in many fruits by the application of
 - a) ABA
 - b) GA₃
 - c) IBA
 - d) 2, 4-D
30. In living organisms growth occurs due to
 - a) Accretion
 - b) Intussusception
 - c) Deposition
 - d) None of the above
31. Combination of synthetic cytokinin and GA₄ is called
 - a) Etophion
 - b) Abscisin
 - c) Dormin
 - d) Pomalin
32. A hormone used as antitranspirant
 - a) IAA
 - b) Water
 - c) ABA
 - d) NAA

33. Rate of growth measured as irreversible increase in volume, size or weight per unit time is called

- a) Accretion
- b) Limited growth
- c) Unlimited growth
- d) Efficiency index

34. Match the columns of find out the correct combination

I	II
A. ABA	p. flowering in long day plants
B. Gibberellin	q. Antitranspirant
C. Cytokinin	r. flowering in short day plants
D. Ethylene	s. apical dominance
	t. synchronization of flowering
a) A-q, B-p, C-r, D-t	b) A-p, B-q, C-r, D-s
c) A- s, B-r, C-q, D-p	d) a-t, B-s, C-r, D-q

35. Synthetic auxins

- a) 2,4-D
- c) 2,4,5-T
- b) IBA
- d) All the above

36. In Non climacteric fruits for fruit ripening there is no role of

- a) Ethylene
- b) Ethephon
- c) m RNA
- d) DNA

37. Isopentenyl adenine (IP) is

- a) Kinetin
- b) Zeatin
- c) Cytokinin
- d) ABA

38. Root and stem shows

- a) Limited growth
- b) Reversible growth
- c) Unlimited growth
- d) None of the above

Q39. The extreme tip of root and shoot having cell division is composed of

- a) Sclerenchyma cells
- b) Meristematic cells
- c) Lignified cells
- d) Mature cells

Q 40. Abscissic acid is also called

- a) Dormin
- b) Abscisin
- c) Both a and b
- d) Pomalin

Q41. 6-furfuryl aminopurine is

- a) Zeatin
- b) Kinetin
- c) Gibberellin
- d) Auxin

Q42. Grand phase of growth is

- a) Steady phase
- b) Log phase
- c) Lag phase
- d) Stationary phase

Q43. 2, 3, 5- triiodobenzoic acid (TIBA) is

- a) Auxin
- b) Antiauxin
- c) Anticytokinin
- d) Cytokinin

Q44. In tissue culture, growth of callus requires the presence of

- a) 2, 4-D
- b) ABA
- c) Ethylene
- d) Ethrel

Q45. Auxin has no influence on

- a) Apical dominance
- b) Vernalization
- c) Parthenocarpy
- d) Higher yield

Q46. For plant tissue culture among the following which one is required

- a) Kinetin
- b) Silver
- c) Gold
- d) Caffeine

Q47. NAA is

- a) Natural auxin
- b) Natural cytokinin
- c) Synthetic ethylene
- d) Synthetic auxin

Q48. Healing hormone is

- a) ABA
- b) Ethephon
- c) Ethylene
- d) Auxin

Q49. Zeatin is

- a) Auxin
- b) Cytokinin
- c) ABA
- d) Ethylene