1. Formation of interfascicular cambium from fully developed parenchyma cells is an example for **(2024)**
(a) Redifferentiation
(b) Dedifferentiate
(c) Maturation
(d) Differentiation

2. Auxin is used by gardeners to papers weed-free lawns. But no damage is caused to grass as auxin. **(2024)**
(a) Promotes abscission of mature leaves only
(b) Does not affect mature monocotyledonous plants
(c) Can help in division in grasses, to produce growth
(d) Promotes apical dominance

3. Spraying sugarcane crop with which of the following plants growth regulators, increases the length of stem, thus, increasing the yield? **(2024)**
(a) Gibberellin (b) Cytokinin
(c) Abscisic acid (d) Auxin

4. Spraying of which of the following phytohormone on juvenile conifers helps hastening the maturity period, that leads early seed production? **(2023)**
(a) Abscisic Acid
(b) Indole-3-butyric Acid
(c) Gibberellic Acid
(d) Zeatin

5. Which hormone promotes internode/petiole elongation in deep water rice? **(2023)**
(a) 2, 4-D (b) GA3
(c) Kinetin (d) Ethylene

6. Which of the following statements is not correct? **(2023)**
(a) Phase of cell elongation of plant cells is characterized by increased vacuolation
(b) Cells in the meristematic phase of growth exhibit abundant plasmodesmatal connections
(c) Plant growth is generally determinate
(d) Plant growth is measurable

7. The ability of plants to follow different pathways in response to environment leading to formation of different kinds of structures is called **(2022)**
(a) Differentiation (b) Redifferentiation
(c) Development (d) Plasticity

8. Which of the following growth regulators is an adenine derivative? **(2022)**
(a) Abscisic acid (b) Auxin
(c) Cytokinin (d) Ethylene

9. Which one of the following plants does not show plasticity? **(2022)**
(a) Cotton (b) Coriander
(c) Buttercup (d) Maize

10. The gaseous plant growth regulator is used in plants to: **(2022)**
(a) speed up the malting process
(b) promote root growth and roothair formation to increase the absorption surface
(c) help overcome apical dominance
(d) kill dicotyledonous weeds in the fields

11. Production of Cucumber has increased manifold in recent years. Application of which of the following phytohormones has resulted in this increased yield as the hormone is known to produce female flowers in the plants: **(2022)**
(a) ABA
(b) Gibberellin
(c) Ethylene
(d) Cytokinin

12. The site of perception of light in plants during photoperiodism is: **(2021)**
(a) Stem (b) Axillary bud
(c) Leaf (d) Shoot apex

13. The plant hormone used to destroy weeds in a field is: **(2021)**
(a) NAA (b) 2, 4-D
(c) IBA (d) IAA

14. Plants follow different pathways in response to environment or phase of life to form different kinds of structures. This ability is called: **(2021)**
(a) Flexibility (b) Plasticity
(c) Maturity (d) Elasticity

15. The process of growth is maximum during: **(2020)**
(a) Lag phase (b) Senescence
(c) Dormancy (d) Log phase

16. Which of the following is not an inhibitory substance governing seed dormancy? **(2020)**
(a) Abscisic acid
(b) Phenolic acid
(c) Para-ascorbic acid
(d) Gibberellic acid

17. Name the plant growth regulator which upon spraying on sugarcane crop, increases the length of stem, thus increasing the yield of sugarcane crop. **(2020)**
(a) Gibberellin (b) Ethylene
(c) Abscisic acid (d) Cytokinin

18. Match the following concerning the activity/function and the phytohormone involved. **(2020 Covid Re-NEET)**

1.	Fruit ripener	(i)	Abscisic acid
2.	Herbicide	(ii)	GA_3
3.	Bolting agent	(iii)	2, 4-D
4.	Stress hormone	(iv)	Ethephon

Select the correct option from following:
(1) (2) (3) (4)
(a) (iii) (iv) (ii) (i)
(b) (iv) (iii) (ii) (i)
(c) (iv) (ii) (i) (iii)
(d) (ii) (iii) (iv) (i)

19. Who coined the term 'Kinetin'? **(2020 Covid Re-NEET)**
(a) Darwin (b) Went
(c) Kurosawa (d) Skoog and Miller

20. Inhibitory substances in dormant seeds cannot be removed by subjecting seeds to: **(2020 Covid Re-NEET)**
(a) Nitrate
(b) Ascorbic acid
(c) Chilling conditions
(d) Gibberellic acid

21. It takes very long time for pineapple plants to produce flowers. Which combination of hormones can be applied to artificially induce flowering in pineapple plants throughout the year to increase yield? **(2019)**
(a) Auxin and Ethylene
(b) Gibberellin and Cytokinin
(c) Gibberellin and Abscisic acid
(d) Cytokinin and Abscisic acid

22. What is the site of perception of photoperiod necessary for induction of flowering in plants? **(2019)**
(a) Lateral buds (b) Pulvinus
(c) Shoot apex (d) Leaves

23. Fruit and leaf drop at early stages can be prevented by the application of: **(2017)**
(a) Cytokinins (b) Ethylene
(c) Auxins (d) Gibberellic acid

24. Match Column - I with Column - II and select the correct option using codes give below. **(2017)**

Column - I		Column - II	
A.	Cytokinin	(i)	Stimulates closure of stomata
B.	Ethylene	(ii)	Increases stem length
C.	Gibberellin	(iii)	Promotes lateral shoot growth
D.	Abscisic acid	(iv)	Found in large amount in tissues undergoing senescence

Codes:
(a) A-(iii) B-(iv) C-(ii) D-(i)
(b) A-(iii) B-(ii) C-(iv) D-(i)
(c) A-(iv) B-(i) C-(iii) D-(ii)
(d) A-(ii) B-(iv) C-(i) D-(iii)

25. Growth hormone Auxin was isolated by F.W. Went from tips of seeding coleoptile of: **(2017)**
(a) Rice (b) Maize
(c) Wheat (d) Oat

26. You are given a tissue with its potential for differentiation in an artificial culture. Which of the following pairs of hormones would you add to the medium to secure shoots as well as roots? **(2016-II)**
(a) Auxin and Abscisic acid
(b) Gibberellin and Abscisic acid
(c) IAA and Gibberellin
(d) Auxin and Cytokinin

27. The Avena curvature is used for bioassay of: **(2016-I)**
(a) ABA (b) GA
(c) IAA (d) Ethylene

28. Typical growth curve in plants is: **(2015)**
(a) Stair-steps shaped
(b) Parabolic
(c) Sigmoid
(d) Linear

29. What causes a green plant exposed to the light on only one side, to bend toward the source of light as it grows? **(2015)**
(a) Light stimulates plant cells on the lighted side to grow faster.
(b) Auxin accumulates on the shaded side, stimulating greater cell elongation there.
(c) Green plants need light to perform photosynthesis.
(d) Green plants seek light because they are phototropic.

30. Auxin can be bioassay by: **(2015 Re)**
(a) Hydroponics
(b) Potometer
(c) Lettuce hypocotyl elongation
(d) Avena coleoptile curvature

31. Dr. F. Went noted that if coleoptile tips were removed and placed on agar for one hour, the agar would produce a bending when placed on one side of freshly cut coleoptile stumps. Of what significance is this experiment? **(2014)**
(a) It demonstrated polar movement of auxins
(b) It made possible the isolation and exact identification of auxin
(c) It is the basis for quantitative determination of small amounts of growth-promoting substances
(d) It supports the hypothesis that IAA is Auxin

32. A few normal seedlings of tomato were kept in a dark room.
After a few days they were found to have become white- colored like albinos. Which of the following terms will you use to describe them? **(2014)**
(a) Defoliated (b) Mutated
(c) Embolised (d) Etiolated

33. Which one of the following growth regulators is known as 'stress hormone'? **(2014)**
(a) Indole acetic acid
(b) Abscisic acid
(c) Ethylene
(d) GA_3

34. During seed germination its stored food is mobilised by: **(2013)**
(a) Gibberellin (b) Ethylene
(c) Cytokinin (d) ABA