



BIOLOGY

BOOKS - UNIVERSAL BOOK DEPOT 1960 BIOLOGY (HINGLISH)

PLANT GROWTH AND DEVELOPMENT

Plant Growth And Development

1. Maxmum growth in roots occurs

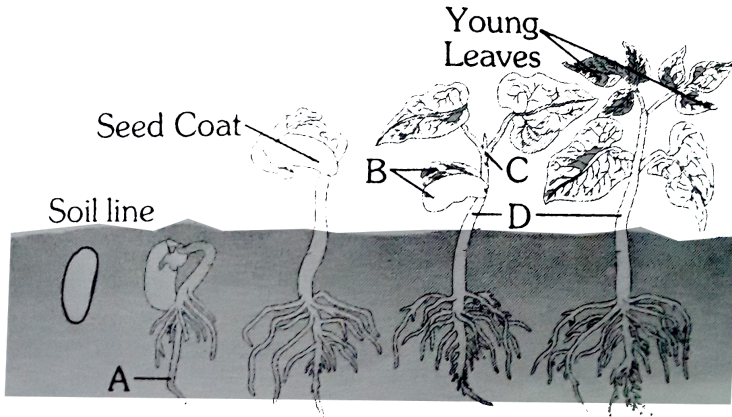
- A. At apex
- B. In presence of light
- C. Behind the apex
- D. In presnce of soil

Answer: c



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2. The given figure indicates the stages of seed germination



Identify A,B,C and D respectively

- A. Root hair ,Cotyedons ,Epicotyl and Hyocotyl
- B. Mesocotyl ,Cotyedons ,Epicotyl and Hyocotyl
- C. Radicle ,Cotyedons ,Epicotyl and Hyocotyl
- D. Plumule ,Cotyedons ,Epicotyl and Hyocotyl

Answer: c



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3. Which of the following instrument can be used to record plant growth by seconds i.e .in fraction of a minute

- A. Arc auxanometer
- B. Arc indicator
- C. Space maker disc
- D. Cresograph

Answer: d



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4. Which two factors primarily affect the developmental phase of growth of plants

- A. Light and temperature
- B. Rainfall and temperature

C. Light and wind

D. Temperature and relative humidity

Answer: A



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5. Evergreen trees remain green throughout the year on account of

A. Absence of leaf fall

B. Leaves falling in small numbers through at intervals

C. Supply of the moisture throughout the year

D. Cold climate

Answer: b



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6. The growth involves

- A. Cell division
- B. Cell enlargement
- C. Cell maturation
- D. All the above

Answer: D



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7. Where would you look for active cell division in plants

- A. In the pith cells
- B. In the cells of cortex
- C. In the internodal region
- D. At the trip of root and shoot

Answer: D



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8. plant growth in length is increased by

- A. Apical meristem
- B. Lateral meristem
- C. Dermatogen periblem
- D. Secondary

Answer: A



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9. Growth is

- A. Unidirectional backward

B. Reversible

C. Unidirectional forward

D. None of the above

Answer: C



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10. Phyotron is a device by which

A. Electrons are bombarded

B. Protons are liberated

C. Plants are grown in controlled environment

D. Mutations are produced in plants

Answer: c



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11. The -S- shaped growth curve and grand period of growth may change with

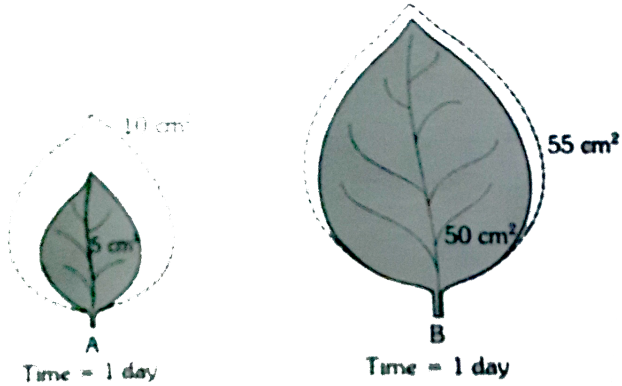
- A. Sudden fluctuation In light intensity
- B. change in temperature
- C. Fluctuation in humidity
- D. it remains unaffected

Answer: D



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12. See the figure chose the correct option from table



	A - Leaf		B - Leaf	
	AGR	RGR	AGR	RGR
(a)	0.5	100%	1.5	100%
(b)	5	100%	5	10%
(c)	100%	5	10%	5
(d)	1%	1	2%	2

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13. Deeply sown seeds do not germinate and do not come up over due to the deficiency of

A. Light

B. Water

C. Oxygen

D. Nuterents

Answer: c



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14. The rate of growth of any organism follows

Or

Typical growth curve in plants is

A. Hyerbole curve

B. J- shped curve

C. Singmoid curve

D. parabole curve

Answer: C



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15. Exponential growth occur in

- A. Yeast
- B. Asexual reproduction
- C. Bacterial
- D. All of these

Answer: B



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16. Dendrochonology is

- A. Sencondary growth
- B. Apical grwth
- C. Seasonal variation
- D. Determine of age of tree

Answer: d



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17. In vascular plants ,light promotes

- A. Growth
- B. Development
- C. Differentiation
- D. De-differentiation

Answer: c



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18. In lag phase ,the growth is

- A. Slowest

B. Fastest

C. Intermedite

D. Nogowth at all

Answer: A



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19. To remove seed dormany by mechainical removing of seed coat is called

A. Stratificaton

B. Scarification

C. Veralizaton

D. photoperiodism

Answer: b



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20. Highest growth is found in

- A. Static phase
- B. Exponential phase
- C. Descending phase
- D. lag phase

Answer: B



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21. The growth in plants is

- A. Limited
- B. Unlimited
- C. Unlocalised
- D. None the these

Answer: b



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22. Which of the following is the primary motive force responsible for growth

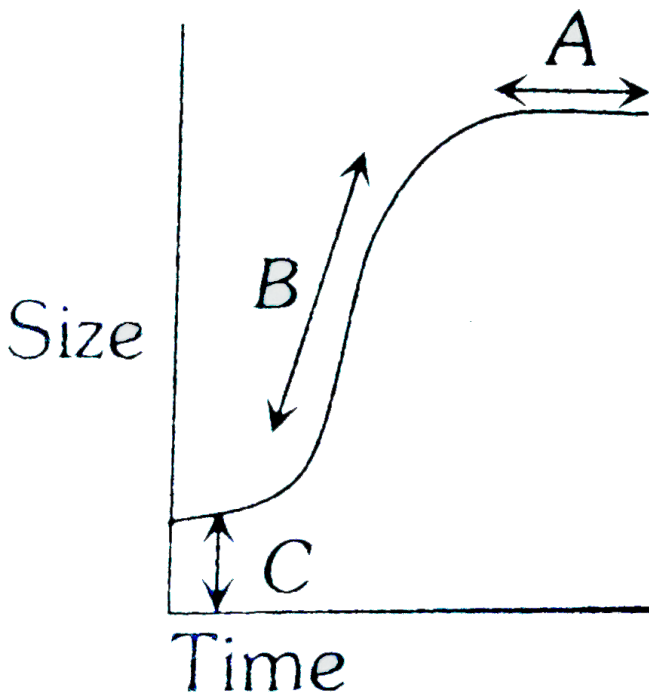
- A. Root pressure
- B. Turgor pressure
- C. Osmotic pressure
- D. DPD

Answer: b



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23. Given below is a graph on the parameters of growth versus time A, B, C respectively represent



- A. Exponential phase ,log phase and steady state phase
- B. Steady state phase ,log phase and log phase
- C. Slow growing phase , log phase and steady atate state phase
- D. Lag phase , steady state phase and logarithmic phase

Answer: B

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24. 'Traumatin' is present in

- A. Old leaves
- B. Cork
- C. Wood
- D. Injured portion

Answer: d



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25. Seeds of parasitic plants like orobanche germinate in the presence of

- A. Auxin produced by the roots of the host
- B. GA_3 produced by the roots of the parasite
- C. Exudates of the host plant
- D. Exudates of the parasite

Answer: c



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26. Growth is maximum in the zone of

- A. Cell division
- B. Cell elongation
- C. Cell maturation
- D. All of these

Answer: b



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27. The instrument by which the rate of growth of stem is accurately measured is

Or

Growth in length of a plant can be measured by

- A. Hydrometer
- B. Auxanometer
- C. Osmometer
- D. Potometer

Answer: b



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28. Several horticultural techniques are followed for the production of 'bonsai' plants. One of them is drastic pruning of roots system which of the following physiological factor is involved in that method

- A. Inadequacy of mineral nutrients
- B. Deficiency of auxins
- C. Impairment of water absorption

D. Deficiency of cytokinins

Answer: c



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29. Distribution of growth in a root by making it at equal intervals with indian ink was originally studied by

A. Wellensick

B. Strasburger

C. Went

D. Nitsch

Answer: b



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30. Classical experiments on growth were performed by

- A. Lamarck and Boysen -Jennen
- B. Boysen -Jennsen and darwin
- C. Darwin and lamarck
- D. De veries and pual

Answer: b



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31. The type of growth of bands in conifers is

- A. Lateral
- B. Delinquent
- C. Caudex
- D. Excurrent

Answer: a



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32. Among plants ' pheromones' are secreted by the cells of following plants for the given function

- A. All plants for growth and development
- B. Yeast for facilitating mating
- C. All fungi sexual reproduction
- D. Rhizopus for the formation of zygospore

Answer: d



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33. The natural plants hormones were first isolated from

- A. Corn germ oil and human urine
- B. Cotton fruits , spinach leaves and rice plants
- C. Avena coleoptile spinach leaves and the fungus gibberella
- D. Human urine and rice seedlings

Answer: a

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34. Who used the term ' Phyohormones' for plants hormone

- A. Balis
- B. Morgan
- C. Went
- D. Thimann

Answer: d

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35. Phytohormones control

- A. Growth
- B. Physiological functions
- C. Rooting
- D. Flowering

Answer: b



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36. lagume seeds exhibit dormancy because of

- A. Undeveloped embryo
- B. Hard seed coat
- C. Absence of cytokinin

D. Absence of GA_3

Answer: b



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37. By hormone application it is possible to obtain seedless fruits .In which of the following it is undesirable to obtain seedless fruits

A. Tomato

B. Orange

C. Watermelon

D. Pomegranate (Anar)

Answer: d



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38. In which of the following respect , the plant hormones differ fromn enzymes

- A. Required in less quanti
- B. They are expended in the process
- C. they release some energy
- D. None of the above

Answer: a



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39. Plant horones area usually

- A. Proteins
- B. Lipids
- C. Carbohydrates
- D. Aromatic compounds

Answer: d



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40. Whose technique is employed for the extration and elimination of hormones

- A. Beack
- B. Beer
- C. Garner
- D. Allard

Answer: c



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41. Who for the first time speculated the presece of organ foemating substances in plant now called hormones

A. Darwin

B. Went

C. Yabuta

D. Sachs

Answer: d



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42. Rhizocalin is a additional hormonesubstance which is secreted by

A. Cotyledons

B. Roots

C. Leaves

D. Stem

Answer: c



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43. Certain chemical substances having profound effect on growth, are called

- A. Catalytic agents
- B. phytohormones
- C. Enzymes
- D. Compost

Answer: b



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44. The pineapple which under natural conditions is difficult to blossom has been made to produce fruits throughout the year by application of

- A. NAA, 2, 4-d
- B. phenyl acetic acid

C. Cytokinin

D. IAA, IBA

Answer: a



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45. To induce formation of organs in a callus it is necessary to provide

A. Growth hormones

B. water

C. Soil

D. Antibiotics

Answer: A



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46. Leaf fall occurs as abscission layer is formed when the constant of

- A. Auxin increases
- B. Auxin decreases
- C. Abscisic acid decreases
- D. Gibberellic acid decreases

Answer: b



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47. 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

- A. It supports the hypothesis that IAA is auxin
- B. It demonstrated polar movement of auxins

C. It made possible the isolation and exact identification of auxin

D. It is the basis for quantitative determination of small amounts of growth-promoting substances

Answer: c



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48. Apical dominance in higher plants is due to

A. Balance between auxin and cytokinin

B. Enzyme activity and metabolism

C. Carbohydrates

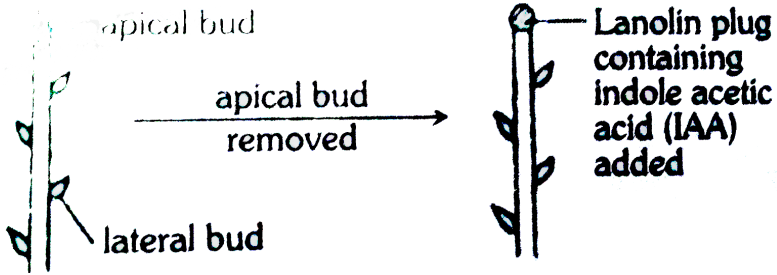
D. Photoperiodism

Answer: a

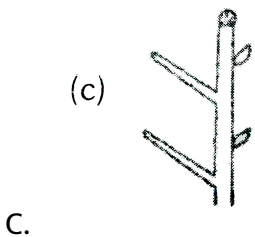
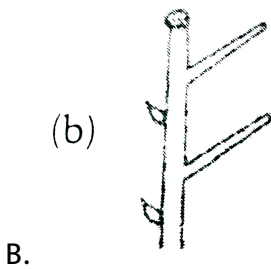
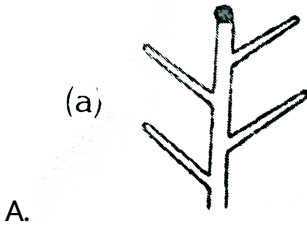


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49. See the following diagram



after two weeks the appearance of the shoot would be



(d)



D.

Answer: d



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50. Which one the following plant function is not generally governed or controlled by auxin

- A. Apical dominace
- B. photropism
- C. Photosynthesis
- D. Growth

Answer: c



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51. Which of the following movements is not related to change in auxin levels

- A. nyctinastic leaf movement
- B. Movement of roots towards soil
- C. Movement of sunflower tracking the direction of the sun
- D. Movement of shoot towards light

Answer: a



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52. Parthenocarphy is induced by

- A. ABA
- B. Auxins

C. Zeatin

D. Cytokinin

Answer: b



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53. Who among the following discovered the *Avena* curvature test to find out the concentration of auxins

A. F.W .Went

B. L.J. Audus

C. K.V Thimman

D. F.Skoog

Answer: A



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54. One of the synthetic auxin is

Or

Flowering in pineapple is promoted by

A. NNA

B. IAA

C. GA

D. IBA

Answer: a



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55. Which of the following is not naturally occurring plant hormone

A. 2,4-D

B. GA_2

C. Gibberellin

D. IAA

Answer: a



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56. Highest concentration of auxins exist in

- A. At the base of various plant plant organs
- B. Growing tip of plants
- C. in leaves
- D. In xylem and phoem cells only

Answer: b



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57. A well known naturally occurring auxin is Or A natural growth regulator (hormone) is

A. 2, 4-D

B. Indole acetic acid

C. NAA

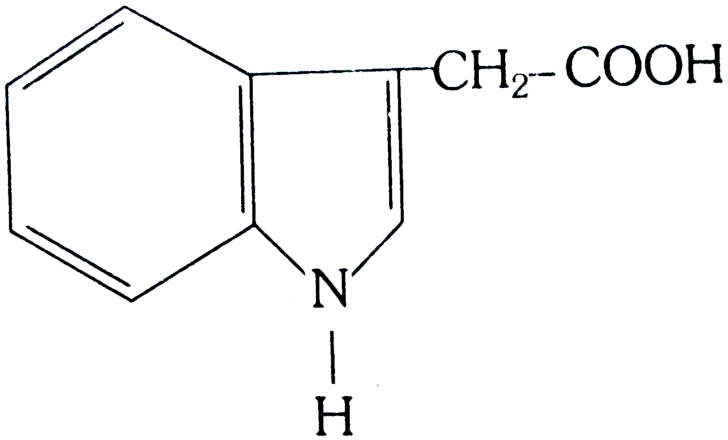
D. Maleic hydrazide

Answer: b



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58. See the following



Bove structure is of an auxin , that is

- A. IAA
- B. Auxin b
- C. Auxin a
- D. None of the above

Answer: a



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59. Which one among the following chemical is used for causing defoliation of forest trees

- A. Amo-1618
- B. Phosphon-D
- C. Maleic hydrazide
- D. 2, 4-D

Answer: d



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60. Auxins inhibits the growth of

- A. Apical bud
- B. Lateral axillary buds
- C. Roots on stem cutting
- D. Parthenocarpic development of fruits

Answer: b



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61. Phototropism in shoots is attributed to

- A. Auxin
- B. Gibberellines
- C. Cytokinins
- D. Abscisic acid

Answer: a



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62. Differentiation of shoot is controlled by

- A. High gibberellin : cytokinin ratio

- B. High cytokinin : auxin ratio
- C. High auxin : cytokinin ratio
- D. High gibberellin : auxin ratio

Answer: B



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63. How does pruning help in making the hedge dense

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

Answer: d



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64. Both in calls and suspension cultures commonly used auxin is

A. NAA

B. IBA

C. 2,4-D

D. 2,4,5 - trichlorophenoxy acetic acid

Answer: c



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65. Levitt performed experiments .He observed that auxin treated cells were able to water even when kept in hypertonic solution .Which explains this observation best

A. Auxin treated cells lose selective permeability

B. ATP production increases and therefore much energy is available for activeabsorption

C. Auxin lower lwer the water potential of cells

D. Auxin increases the solute potential of cell

Answer: c



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66. Which of the following ion is pulled out in apoplast by the auxin during growth

A. Ka^+

B. K^+

C. Mg^{2+}

D. H^+

Answer: b



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67. Pruning of plants promotes branching because the axillary buds get sensitized to

- A. Ethylene
- B. Gibberellin
- C. Cytokinin
- D. Indole acetic acid

Answer: d



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68. One of the commonly used plant growth hormone in tea plantations is

- A. Ethylene
- B. Abscisic acid
- C. Zeatin

D. Indole -3 - acetic acid

Answer: d



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69. Auxin -B was first isolated by

A. Kogl and Erxleben

B. Kogl , Erxleben and haagen - smith

C. Miller and Skoog

D. Yabuta and Sumiki

Answer: b



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70. 6-furfuryl amino purine, 2, 4-dichlorophenoxy acetic acid and indole-3-acetic acid are examples respectively for

- A. Synthetic auxin, Kinetin and natural auxin gibberellin, natural auxin
- B. Gibberellin, natural auxin and kinetin
- C. Natural auxin, Kinetin and synthetic auxin
- D. Kinetin, synthetic auxin and natural auxin

Answer: d



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71. Apical dominance in plants is caused by

- A. High concentration of auxins in the terminal bud
- B. High concentration of gibberellins in the apical bud
- C. High concentration of auxin in the lateral bud
- D. Absence of auxin and gibberellins in the apical bud

Answer: A



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72. auxin in plants is not meant for

Or

Cell elongation in plants is caused by

- A. Cell elongation
- B. Fruit ripening
- C. Cell division
- D. Inhibit the root growth

Answer: b



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73. Synthetic auxins are used for

A. killing weeds

B. Ripending fruits

C. Increasing the size of the fruit

D. Stimulating growth of cells in tissue of fruits

Answer: A



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74. Which of the following prevents falling of fruits

OR

Fruit and leaf drop at early stages can be prevented by the application

A. GA_3

B. NAA/Auxin

C. Ethylene

D. Zeatin

Answer: b



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75. Which of the following is not a physiological effect/ an influence of auxin

- A. Initiates rooting in stem cuttings
- B. Promotes flowering
- C. Prevents fruit and leaf drop at early stages
- D. Promotes bolting

Answer: d



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76. The substance which have proved very effective to induce rooting from cut end of the stem is

Or

Abscission of fruit is prevented by

- A. Phenyl acetic acid
- B. α - naphthalene acetic acid
- C. Indole acetic acid
- D. Indole butyric growth

Answer: d



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77. Auxin originates at the tip of the stem and controls growth elsewhere. The movement of auxin is largely

- A. Basipetal
- B. Acropetal
- C. Acropetal and basipetal

D. Centropetal

Answer: a



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78. Which of the following effects of auxins on plants is the basis for commercial application

A. Callus formation

B. Curvature of stem

C. Inducation of root formation instem cutting

D. All of the these

Answer: d



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79. 2,4-D is a

- A. Insecticide
- B. Weedicide
- C. Nematicide
- D. Rodenticide

Answer: b



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80. During germination ,stem grows upward and root goes downward because

Or

Phototropic curvature is the result of uneven distribution

- A. It depends upon light
- B. Of auxin

C. it does not depend on light

D. Of epinasty and hyponasty

Answer: b



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81. IAA and serotonin are derived (formed) from which of the following

A. Typtophon

B. Tyrosine

C. Phenylalanine

D. None of these

Answer: a



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82. Bioassay for auxin is

- A. *Avena curvata* test
- B. Green leaf test
- C. Dwarf maize test
- D. Cell division test

Answer: A



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83. Substances which originate at the tip of the stem and control growth elsewhere are

- A. Food material
- B. Auxins or hormones
- C. Vitamins
- D. Enzymes

Answer: b



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84. Avena coleoptile test detects the presence of

- A. IAA
- B. GA
- C. NAA
- D. BA

Answer: a



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85. Auxins are abundantly produced in

- A. Root

B. Meristematic region of the root

C. Shoot

D. Meristematic region of the shoot

Answer: d



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86. The presence of auxins in a solution could be tested by

A. Avena sativa stem tip test

B. Carbon tetrachloride test

C. Iodine test

D. Defoliation test

Answer: a



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87. In plants auxins synthesis occurs in

- A. Cortex
- B. phloem cells
- C. Root and shoot tips
- D. Xylem cells

Answer: c



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88. 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

- A. Gibberellin and abscisic acid
- B. IAA and gibberellin
- C. Auxin and cytokinin

D. Auxin and abscisic acid

Answer: c



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89. Gibberellin was first extracted from

A. *Gibberella fujikuroi*

B. Algae

C. Bacteria

D. Root of higher plants

Answer: a



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90. Specific property attributed to gibberellins is

- A. Shortening of genetically tall plants
- B. Elongation of genetically dwarf plant
- C. Promotion of rooting
- D. Yellowing leaves

Answer: b



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91. The hormone involved in metabolism of food material in cereal grain during germinations is

- A. Auxin
- B. CKN
- C. GA
- D. None of these

Answer: c

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92. Cell elongation in internodal region takes place due to

- A. Gibberellins
- B. Ethylene
- C. Cytokinins
- D. Indole acetic acid

Answer: a

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93. Which of the following plant hormone substitutes for long photoperiods in flowering plants

- A. Auxins
- B. Gibberellins

C. Cytokinins

D. Ethylene

Answer: b



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94. Gibberellic acid induces flowering

A. In some gymnospermic plants only

B. In long day plants under short day conditions

C. In short day plants under long day conditions

D. In day neutral plants under dark conditions

Answer: b



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95. Which one of the following pairs , is not correctly matched

A. Abscissic acid - Somatal closure

B. Gibberellins acid - Leaf fall

C. Cytokinin - Cell divisiion

D. IAA- Cell elongation

Answer: b



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96. Parthenocarpic tomato fruities can be produced by

A. Rasing the plants from vernlized seeds

B. Treating the plants with phenylmercuric acetate

C. Removing androecium of flowers before pollen grains are released

D. Treating the plants with low concentrations of gibberellic acid and auxins

Answer: d

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97. Gibberellins can promote seed germination because of their influence on

- A. Rate of cell division
- B. Production of hydrolytic enzymes
- C. Synthesis of abscisic acid
- D. Absorption of water through hard seed coat

Answer: b

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98. Dormancy of speed is broken by

- A. Auxin and cytokinin
- B. Gibberellins and ethylene
- C. ETHylene and auxin
- D. Cyokinin and auxin

Answer: b



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99. Apical dominance is not affectd by

- A. Indole acetic acid
- B. Gibberellic acid
- C. Indore acetaldehyde
- D. Indole butyric acid

Answer: b



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100. The hormone which was discovered through ' foolish seedling ' disease of rice is

Or

Bakane disease in paddy is caused by

A. Indole -3- acetic acid

B. Ethylene

C. Gibberellic acid

D. Kinetin

Answer: C



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101. Gibberellins were first discovered in fungal genus

- A. Mucor
- B. Rhizopus
- C. Agaricus
- D. Fusarium

Answer: d



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102. The rosette habit of cabbage can be changed by application of

- A. IAA
- B. GA
- C. ABA
- D. Ethaphon

Answer: b



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103. At the onset of speed germination ,the digestive enzymes amylase are produced by the action of

Or

The activity of α amylase in the endosperm of barley geminating seed is induced is induced by

- A. Auxins
- B. Gibberellins
- C. Cytokinins
- D. Ethylene

Answer: b



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104. The chemical nature of gibberellins is that they are

- A. Acidic
- B. alkaline
- C. proteninaseous
- D. Amines

Answer: a



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105. The gibberellins are plant growth hormones. They cause elongation of stems. Gibberellins were first isolated by Japanese workers from

- A. Endosperm of barley
- B. Apophyte of moss
- C. Parasitic fungus
- D. Scutellum of rice

Answer: c



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106. Cytokinin is hormone whose main function is

- A. Induction of cell division and delay in senescence
- B. To take part in cell division
- C. Refers to cell movements
- D. to cause dormancy

Answer: a



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107. Richmond Lang effect can be observed in plants by the treatment of

- A. Cytokinin

B. Ethylene

C. Abscisic acid

D. Gibberellins

Answer: a



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108. A plant hormone used for inducing morphogenesis in plant tissue is

OR

For plant tissue culture among the following which one is required

A. Abscisic acid

B. Gibberellins

C. Cytokinins

D. Ethylene

Answer: c



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109. cytokinesis refers to

- A. Division of chromossomes
- B. Division of cytoplasm
- C. Division of nucleus
- D. None o these

Answer: b



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110. Leaf fall can be prvented by

- A. Florigen
- B. Auxin
- C. Cytoknins

D. Abscisic acid

Answer: c



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111. Which of the following induces flowering in short day plant

A. Gibberellins

B. Cytokinin

C. Auxins

D. Ethylene

Answer: b



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112. All the cyokinins are

A. Acidic

B. Aminoputiness

C. phenol

D. Glucosides

Answer: b



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113. Pick out the correct statements

cytokinin specially help in delaying senescence

(b) Auxdins are involved in regulatiing apical dominance ItbRgt (c)

Ethylene is especially useful in enhancing seed germination

(d) Gibberellins arae responsible for immature falling of leaves

A. A and C only

B. A and D only

C. B and C only

D. A and B only

Answer: d



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114. Which of the following is a coconut mik factor

A. Auxin

B. Cytokinin

C. Morphaction

D. None of the above

Answer: b



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115. Match the following and chose the correct combination

Column I	Column II
A Zeatin	1 flowering hormone
B Florigen	2 synthethic auxin
C IBA	3 cytokinin
D NAA	4 Natural auxin

A. A-3,B-4,C-1,D-2

B. A-2,B-1,C-4,D-3

C. A-4,B-1,C-2,D-3

D. A-3,B-1,C-4,D-2

Answer: d



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116. Farmers in a particular region were concerned that premature yellowing of leaves of a pulse crop might cause decrease in the yield. Which treatment could be most beneficial to obtain maximum seed yield

- A. removal of all yellow leaves and spraying the remaining green leaves with 2,4,5 - trichlorophenoxy acetic acid
- B. Application of iron and magnesium to promote synthesis of chlorophyll
- C. Frequent irrigation of the crop
- D. Treatment of the plants with cytokinins along with a small dose of nitrogenous fertilizer

Answer: d



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117. Cytokinins are formed in

- A. Roots
- B. Leaves
- C. Fruits

D. Stems

Answer: A



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118. An excised leaf does not turn yellow if it is induced to root this is attributed to synthesis in root of or Leaf aging is retarded by

Or

The cut flowers and vegetable can be kept be fresh a long period by which plant hormone

A. Ethylene

B. Cytokinins

C. Gibberellins

D. Auxins

Answer: B



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119. Which of the following is indispensable in all culture

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

Answer: b



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120. Cambial tissue of *Pinus radiata* contains

- A. Auxins
- B. Gibberellins
- C. Cytokinin

D. None of the above

Answer: c



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121. Guttman (1957) found a quick increase in the amount of RNA in the nuclei of onion root after

A. Auxin treatment

B. Kinetin treatment

C. Gibberellin treatment

D. All the above

Answer: b



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122. RNA for maturation is induced by

A. Phyllocalins

B. All calins

C. Kinetins

D. Florigens

Answer: c



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123. Cytokinin was first synthesized by Skoog and Miller

Name 'zeatin' was given by

A. Skoog and Miller

B. Letham

C. Bensen and Calvin

D. Thimman and Went

Answer: b



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124. The natural plant hormone isolated from corn kernels and coconut milk is

- A. Florigen
- B. GA_3
- C. Zeatin
- D. Indole auxins

Answer: d



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125. Pineapple can be made to flower in off season by

A. Ethylene /NAA

B. Zeatin

C. Shoot day

D. temerature

Answer: a

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126. Ethylene gas

A. Is a saturted hydrocarbon

B. Slows down the ripending of apples

C.

D.

Answer: d

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127. The phytohormone which induces triple response is

A. IAA

B. ABA

C. GA_3

D. C_2H_4

Answer: d



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128. Ethylene is a

A. Gaseous hormone

B. Gaseous enzyme

C. Liquid - gas mixture

D. Solid hormone

Answer: A



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129. A higher proportion of ethylene is found in

A. Ripening banana

B. Green banana

C. Green apple

D. Fresh potato tuber

Answer: a



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130. The most efficient precursor of ethylene is

A. Adenine

B. Thiocarbamate

C. Zeation

D. Methionine

Answer: d

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131. The ripening of fruits can be hastened by treatment with

A. Gibberellic acid

B. Indole acetic acid

C. Florigen

D. Ethylene

Answer: d

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132. Which of the following is called as phytoerontological hormone

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

Answer: a



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133. Which one of the following responses of plants to growth hormone is true for ethylene

- A. Increase in cell elongation
- B. Decrease in the formation of female flowers
- C. Increase in ripening of flowers

D. Decrease in abscission of flowers

Answer: c



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134. Artificial ripening of which of the following fruits is useless

A. Mango

B. Banana

C. Grapes

D. Pomegranate /Coconut

Answer: d



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135. Root development is promoted by

- A. Absic acid
- B. Auxin
- C. Gibberellin
- D. Ethylene

Answer: d

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136. Which combination of gases is suitable for fruit ripending

- A. 80 % C_2H_2 and 20 % CO_2
- B. 80 % CO_2 and 20 % CH_2
- C. 80 % CH_2 and 20 % CO_2
- D. 80 % CO_2 and 20 % O_2

Answer: a

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137. Which hormone causes stunted growth in pea

- A. Gibberellic acid
- B. Auxin
- C. Cytokinin
- D. Ethylene

Answer: d



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138. Abscisic acid controls

- A. Shoot elongation
- B. Cell elongation and cell wall formation
- C. Cell division

D. Leaf fall and dormancy

Answer: D



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139. The following is a naturally occurring growth inhibitor

A. IAA

B. ABA

C. NAA

D. GA

Answer: b



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140. Which one of the following acids is a derivative of carotenoids

A. Indole butyric acid

B. Indole-3-acetic acid

C. Gibberellic acid

D. Abscisic acid

Answer: d



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141. Wound hormone is called

A. Necroharmane

B. Hormone only

C. Auxins

D. Phyllocladine

Answer: a



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142. Maleic hydrozide is used to

- A. To prolong dormancy
- B. To break dormancy
- C. Both (a) and(b)
- D. None of the above

Answer: a



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143. Match List I and List II and select the correct option

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

A. $A - 3, B - 1, C - 5, D - 2$

B. $A - 4, B - 5, C - 1, D - 3, E - 2$

C. $A - 2, B - 1, C - 5, D - 3, E - 4$

D. $A - 3, B - 1, C - 5, D - 2, E - 4$

Answer: a



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144. 'Morphactins' are

A. Synthetic growth regulators

B. Synthetic auxin

C. Synthetic gibberellins

D. None of the above

Answer: a



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145. Elongation of internodes is inhibited by

A. Gibberellins

B. Morphactins

C. Both (a) and (b)

D. None of the above

Answer: b



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146. One hormone help in ripening of fruits while the other stimulates closure of stomata . These are respectively

- A. Abscisic acid and auxin
- B. Ethylene and abscisic acid
- C. Absisic and and ethylene
- D. Ethylene and gibberellic acid

Answer: b



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147. Match the items in Column -I with Column -II And choose the correct option

Column - I		Column - II	
A.	Human urine	1.	Cytokinin
B.	<i>Gibberella fujikuroi</i>	2.	Auxin
C.	Herring fish DNA	3.	Ethylene
D.	Ripening fruits	4.	Abscisic acid
E.	Aged leaves of plants	5.	Gibberellins

A. $A - 2, B - 5, C - 1, D - 3, E - 4$

B. $A - 2, B - 3, C - 4, D - 5, E - 1$

C. $A - 2, B - 5, C - 2, D - 4, E - 3$

D. $A - 5, B - 4, C - 3, D - 2, E - 1$

Answer: a

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148. Which one of the following generally acts as an antagonist to gibberellins

A. Zeatin

B. Ethylene

C. ABA

D. IAA

Answer: c



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149. Abscisic acid Treatment results in

A. Leaf expansion

B. Stem elongation

C. Stomatal closure

D. Root elongation

Answer: c



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150. Which plant hormone promotes seed ,but dormany and caues stomatal closure

Or

Presence of ehich of the following in seed is associated with doemancy

Or

Leaf abscission , fruit fall , but dormancy occurs by which phytohormone

A. IAA

B. Abscisic acid

C. GA_1

D. Cytokinin

Answer: b



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151. In the extreme drought condition which of the following plant hormone is produced due to which stomata closes

A. ABA

B. I.A.A

C. Giberellin

D. Ascorbic acid

Answer: a



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152. Chose the wrongly matched pair fromn the following

A. Auxins =" to grow"

B. Gibberellins - Gibberella fujikurai

C. Abscissic acid - Flowering hormone sperm Dna

D. Ethylene -Gas hormone

Answer: d



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153. Phyto ron is

- A. Fish culture
- B. Plant hormone
- C. Animal hormone
- D. None of these

Answer: d



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154. The shedding of leaves , flowers or fruit due to change in the hormonal balance in plant is referred as

- A. Senescence
- B. Abscission
- C. Photoperiodism

D. Vernalisation

Answer: b



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155. Which one of the following plant hormone (phytohormone) is known as a stress hormone

A. Gibberellins

B. Kinetin

C. Auxin

D. Abscisic acid

Answer: d



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156. Which of the following hormone is responsible for senescence

A. GA

B. ABA

C. Auxin

D. Cytokinin

Answer: B



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157. The response of different organisms to the environmental rhythms of light and darkness is called

Or

The effect of day period on flowering is called

A. Photoaxis

B. photoperiodism

C. Vernalization

D. Photooxidism

Answer: d



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158. With which of the following processes is Cholodny - Wnt theory is concerned

A. Photoperiodism

B. Photooxidation

C. Photorespiration

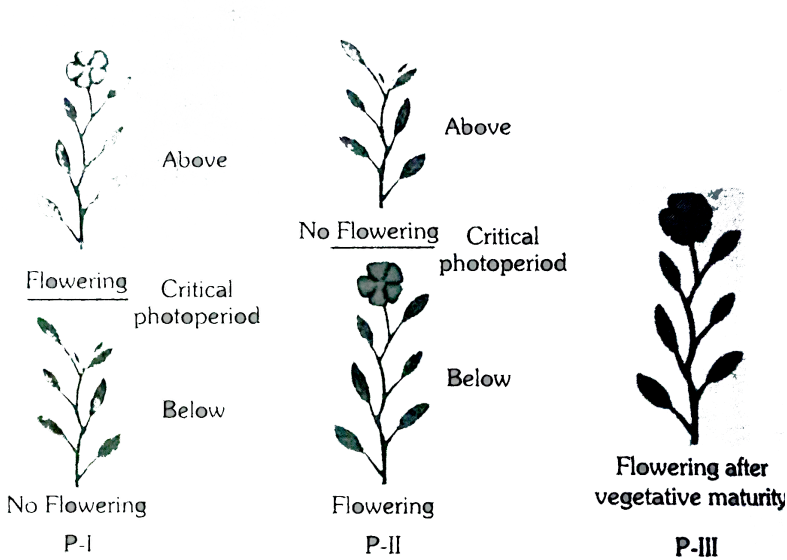
D. photoperiodism

Answer: a



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159. See the following experiment and observe the result



Now identify plant (P-I, and II III)

A.

$P - I =$ Long day plant , $P - II =$ long day plant , $P - III$ day neu

B.

$P - I =$ short day plant , $P - II =$ short day plant , $P - III$ day ne

C.

$P - I =$ short day plant , $P - II =$ Long day plant , $P - III$ day ne

D.

$P - I =$ long day plant, $P - II =$ short day plant, $P - III =$ day neutral

Answer: D



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160. The red absorbing form of phytochrome gets converted to the far-red absorbing form after getting irradiated at

A. 660 nm

B. 730 nm

C. 530 nm

D. 660 nm to 730 nm

Answer: a



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161. The pigment involved in red - far red light interconversion is

Or

The pigment involved in photomorphogenetic movements is

Or

Pigment involved in photo - perception in flowering is

- A. Cytochrome
- B. Xanthophyll
- C. Lycopene
- D. Phytochrome

Answer: d



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162. Importance of day length (photoperiodism) in flowering of plants was first shown in

- A. Cotton

B. Petunia

C. Lemna (photoperiodism)

D. Tobacco

Answer: d



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163. *Nicotiana sylvestris* flowers only during long days and *N. tobacum* flower only during long days in the laboratory under different photoperiods, they can be induced to flower at the same time and can be cross fertilized to flower at the same time and can be cross fertilized to produce self-fertile offspring. What is the best reason for considering *N. sylvestris* and *N. tobacum* to be separate species

A. They are physiologically distinct

B. They are morphologically distinct

C. they cannot interbreed in nature

D. They are reproductively distinct

Answer: c



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164. Phytochrome is found in

A. Algae

B. fungi

C. Vascular cryptogasm

D. Flowering plants

Answer: d



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165. Effect of length of day (light duration) on flowering is called

- A. Phototropism
- B. Photoperiodism
- C. Photorespiration
- D. None of these

Answer: b

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166. *Saccharum officinarum* grows well in

- A. Low temperature
- B. Swampy area
- C. Dry and arid condition
- D. Moist condition

Answer: a

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167. When the dark period of short day plants is interrupted by a brief exposure of light, then the plant

- A. Will not flower at all
- B. Flower immediately
- C. Give more flowers
- D. Turn into a long day plant

Answer: a



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168. Which of the following hormones can replace vernalization

or

Genetic dwarfness can be overcome by treating with

- A. Auxin

B. Ethylene

C. Gibberellins

D. Cytokinins

Answer: c



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169. Which of the following is a short day plant

A. Wheat

B. Barley

C. Larkspur

D. Dahilia

Answer: d



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170. What helps in flowering

- A. Cytochrome
- B. ABA
- C. C-phytochrome
- D. Ethylene

Answer: c



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171. Vernalisation simulates flowering in

- A. Zamikand
- B. Turmuric
- C. Carrot
- D. Ginger

Answer: c



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172. Photoperiodic stimules is received by

- A. Leaves
- B. Buds
- C. Meristem
- D. Flowers

Answer: a



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173. Biological clock in plants is controlled by

- A. Phytochrome

B. Cryptochrome

C. Both (a) and (b)

D. Gibberellin

Answer: c



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174. The period of suspended growth due to exogenous condition is termed as

A. Quiescence

B. Dormancy

C. Perennation

D. Hibernation

Answer: b



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175. Short day plant is

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

Answer: a



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176. Through their effect on plant growth regulators, what do the temperature and light control in the plants

- A. Apical dominance
- B. Flowering
- C. Closure of stomata

D. Fruit elongation

Answer: b



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177. Photoperiodism is substituted by

A. Temperature

B. Mineral nutrient

C. Vit.

D. Iron

Answer: a



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178. If the plants are given only visible light is growth will

- A. Increases
- B. Decreases
- C. unusual form
- D. None of these

Answer: b

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179. Phytochrome occurs in two forms. In which form it promotes the germination of seeds of some species

- A. P_{fr} forms
- B. P_r forms
- C. Both forms
- D. None of these

Answer: A

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180. When flowering is regulated by length of day and night, it is

- A. Photoperiodism
- B. Phototropism
- C. Nyctinasty
- D. None of these

Answer: a

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181. Most of the plants are seasonal due to

- A. Photoperiodism
- B. Phototropism
- C. Photosynthesis

D. Photolysis

Answer: a



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182. Name 'phytochrome' was given by

A. Mothes

B. Borthwick and Hendrick

C. sorokin et al

D. Wickson and Thimman

Answer: b



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183. One set of a plant was grown at 12 hours day and 12 hours night period cycle and it flowered while in the other set night period cycles and it flowered while in the other set night phase was interrupted by flash of light and did not produce flower. Under which one of the following categories will you place this plant

A. Day neutral

B. Short day

C. Long day

D. Darkness neutral

Answer: b



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184. The low temperature treatment that reduces the period between sowing and flowering is called

or

the practise of subjecting seeds to low temperatures for a period of time in order to cause growth and flowering during summer season is called

- A. Chemotaxis
- B. Vernalization
- C. Freezing injury
- D. None of these

Answer: b



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185. Phytochrome is closely related to

- A. Chlorophyll 'e'
- B. Bacterio chlorophyll
- C. Phycocyanin 'c'
- D. Carotinoid

Answer: c



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186. Treatment of seed at low temperature under moist conditions to break its dormancy is called

- A. Chelation
- B. Stratification
- C. scarification
- D. Vernalization

Answer: b



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187. In SDP flowering does not occur

A. When intermediates light is given red \rightarrow far red \rightarrow red

B. Interrupted by a flash of far light

C. interrupted by a flash red \rightarrow far light

D. all of these

Answer: a



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188. the term "photoperiodism" was proposed by or the phenomenon of photoperiodism in plants was discovered by

A. Lysenko and Thimman

B. Blackman and Skoog

C. Garner and Alard

D. Chailakhyan and Borthwick

Answer: c

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189. A hypothetical chemical involved in the following of plants is or chemical agent which has important role in flowering is

- A. Gibberellin
- B. Kinetin
- C. Indole acetic acid
- D. Florigen

Answer: d

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190. Phytochrome is used in

- A. Flowering only
- B. Seed germination only

C. Transpiration only

D. All physiological process exhibited by the plants such as seed germination, flowering (photoperiodism), stem elongation and transpiration

Answer: d

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191. In short plants (SDP) flowering is induced by

A. Long night

B. Photoperiod less than 12 hours

C. Photoperiod shorter than initial value and interrupted long night

D. Short photoperiod and interrupted long night

Answer: c

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192. If a tree flowers thrice in a year (October, January and July) in northern India, it is said to be

- A. Photosensitive but thermo-insensitive
- B. Thermosensitive but photo-insensitive
- C. Photo and thermo-insensitive
- D. Photo and thermosensitive

Answer: b



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193. For germination of seed, which light is necessary

Which wavelength of light is responsible for best flowering

- A. Red light
- B. Green light

C. Far-red light

D. Blue light

Answer: a



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194. Phytochrome becomes active in

A. Green light

B. Blue light

C. Red light

D. None of these

Answer: C



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195. Phytochrome is

- A. Absorption of blue light by leaves
- B. Absorption of PR and PFR in reversible manner
- C. Absorption of red light with wavelength $660\text{m}\mu$
- D. Absorption of far-red light with wavelength $740\text{m}\mu$

Answer: b



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196. A Pigment concerned with both floral induction and seed germination is

- A. Florigen
- B. Chlorophyll
- C. Plastocyanin
- D. Phytochrome

Answer: d



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197. Photoperiodism affects

- A. Vegetative growth
- B. Internode elongation
- C. Seed germination
- D. All of these

Answer: d



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198. florigen is synthesised in

- A. Stem

B. Leaves

C. Root

D. Fruits

Answer: b



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199. With respect to photoperiodism, these are long day plant

A. Wheat, oat, soyabean

B. Wheat, Xanthium, paddy

C. Wheat, poppy, soyabean

D. Wheat, poppy, beet

Answer: d



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200. Which of the following is a long day plant

- A. Mirabilis
- B. Glycine max
- C. Mirabilis jalapa
- D. Spinacia oleracea (Spinach)

Answer: d



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201. What is the action spectrum of photo peridism

- A. 430 and 660 nm
- B. 640 and 660 nm
- C. 660 and 730 nm
- D. 700 and 900 nm

Answer: c



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202. Protienaceous pigment which is the centre of the activities concerned with light is

- A. Phytochrome
- B. Chlorophyll
- C. Anthocyanin
- D. Carotenoid

Answer: a



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203. A few normal seedling of tomato were kept in a dark room. After a few days were found to have become white coloured like albinos. Ehich of

the following terms will you use to describe them

- A. Etiolated
- B. Defoliated
- C. Mutated
- D. Embolised

Answer: a



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204. The wavelength of light absorbed by Pr form of phytochrome is

- A. 640 nm
- B. 680 nm
- C. 720 nm
- D. 620 nm

Answer: a



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205. Phytochrome is sensitive to

- A. Red light
- B. Far red light
- C. Green light
- D. Both (a) and (b)

Answer: d



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206. Chrysanthemum flowers either in winter season or in evening because it is a

- A. Short-day plant
- B. Long-day plant

C. Day-neutral plant

D. Mid-day plant

Answer: a



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207. Phytochrome is

A. Chromoprotien

B. Flavoprotien

C. Glycoprotien

D. Lipoprotien

Answer: a



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208. Plants which disregard the requirement of a definite day length for the flowering are called

- A. Short-day plant
- B. Long-day plant
- C. Day-neutral plant
- D. Long short-day plants

Answer: c



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209. The photoperiod in plants is perceived at

- A. Meritism
- B. Flower
- C. Floral buds
- D. Leves

Answer: d



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210. The affect of apical dominance can be overcome by which of the following hormone

A. IAA

B. Ethylene

C. Gibberellins

D. Cytokinins

Answer: d



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211. Match the following

- | | | |
|---------------|------|--------------------|
| A. IAA | i. | Herring sperm DNA |
| B. ABA | ii. | Bolting |
| C. Ethylene | iii. | Stomatal closure |
| D. GA | iv. | Weed-free lawns |
| E. Cytokinins | v. | Ripening of fruits |

A. A-iv, B-iii, C-v, D-ii, E-i

B. A-v, B-iii, C-iv, D-ii, E-i

C. A-iv, B-i, C-v, D-iii, E-ii

D. A-v, B-iii, C-ii, D-i, E-iv

Answer: a



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212. Apples are generally wrapped in waxed paper to

A. Prevent sunlight for changing its colour

B. Prevent aerobic respiration by respiration by checking the entry of



C. Prevent ethylene formation due to injury

D. Make the apples look attractive

Answer: b



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213. Growth can be measured in various ways. Which of these can be used as parameteres to measure growth

A. Increase in cell number

B. increse in cell size

C. Increse in length and weight

D.

Answer: d

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214. The term synergistic action of hormones refers to

- A. When two hormones act together but bring about opposite effects
- B. When two hormones act together and contributes to the same function
- C. When one hormones affects more than one function
- D. When many hormones bring about any one function

Answer: b

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215. Plasticity in plant growth means that

- A. Plant roots are extensible
- B. Plant growth is dependant on the environment

C. Stems can extend

D. None of these

Answer: b



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216. To increase sugar production in sugarcane, they are sprayed with

A. IAA

B. Cytokinin

C. Gibberellins

D. Ethylene

Answer: C



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217. Monocarpic plants are those which

- A. Bear flowers with one ovary
- B. Flower once and die
- C. Bear only one flower
- D. All of the above

Answer: b



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218. During cell enlargement phase of growth, molecules of new cell wall material are inserted between the original molecules of stretched wall.

This process is known as

- A. Intussusception
- B. Apposition
- C. Integration

D. None of these

Answer: a



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219. Senescence as an active developmental cellular process in the growth and functioning of a flowering plant, is indicated in

- A. Annual plants
- B. Floral parts
- C. Vessels and tracheid differentiation
- D. Leaf abscission

Answer: d



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220. Phytohormones are

- A. Hormones regulating growth from seed to adulthood
- B. Growth regulators synthesised by plants and influencing physiological process
- C. Hormones regulating flowering
- D. Hormones regulating Secondary growth

Answer: b



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221. Identify two physiological process induced by two different phytohormones having a common precursor which is formed due to the catalytic activity of pyruvic dehydrogenous complex

- (I) More female flowers in cucumber
 - (II) α -amylase production in barely grain
- Acceleration of fruit ripening in tomato

(IV) Delay in sprouting of potato tubers

The correct combination is

A. I,II

B. I,III

C. II,IV

D. III,IV

Answer: d



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222. Choose the correct sequence of stages of growth curve for bacteria

A. Lag,Log,stationary,decline phase

B. Lag,Log,stationary phase

C. Stationary,Lag,Log,decline phase

D. Decline,lag,log phase

Answer: a



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223. Which of the following is more essential for the breaking of seed dormancy

A. Light

B. Heat

C. Cold

D. Moisture

Answer: d



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224. Moving on a grass lawn facilities better maintainance primary owening to

- A. Removal of apical dominance and promotion of lateral meristem
- B. Removal of apical dominance
- C. Wounding which stimulates rapid regeneration
- D. None of these

Answer: b

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225. Apical dominance means

- A. Suppression of growth of apical bud by axillary buds
- B. suppression of growth of axillary buds by presence of apical bud
- C. Stimulation of growth of apical bud by removal of axillary buds
- D. Inhibition of growth of axillary buds by removal of apical bud

Answer: b

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226. Cinostat is the apparatus used to

- A. Measures the rate of growth in plant
- B. Measures the quantity of auxin in plant
- C. Measures the effect of light on plant
- D. Eliminate the effect of gravity on plant

Answer: d



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227. Which of the following statement is false with respect to application of auxins

- A. Control direction of growth of plants
- B. Inhibits lateral bud growth

C. Initiate and promote cell division actively particularly in tissue culture

D. Produce hyperelongation effect

Answer: c



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228. A green plant bends towards the source of light when exposed to the light as it grows. Which of the following is the best explanation of the phenomenon

A. The apices of their stems are attracted by light

B. They need light for photosynthesis

C. Some auxins accumulate on the shaded side to induce greater cell elongation on that side

D. Light stimulates the cells on the illuminated side to increase red light

Answer: c



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229. What will be the effect on photochrome in a plant subjected to continuous subjected to continuous red light

- A. Level of Phytochrome will decrease
- B. Phytochrome will be destroyed
- C. Phytochrome synthesis will increase
- D. None of these

Answer: d



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230. Exogenous application of gibberellins induce male flower formation on genetically female plants in

- A. Carica
- B. Cucumis
- C. Coccinia
- D. Cucurbita

Answer: b

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231. a genetically dwarf plants can be converted into a tall plant by the use

- A. Kinetin
- B. GA_3
- C. IAA/X-rays
- D. 2, 4-D

Answer: b

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232. One hormone is used to speed up the malting process in barley, another is used to promote flowering in pineapple, while the third helps in the delay of leaf senescence. These are respectively

- A. Auxin, gibberellin and cytokinin
- B. Gibberellin, cytokinin and auxin
- C. Gibberellin, auxin and cytokinin
- D. Cytokinins, auxin and gibberellin

Answer: c

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233. The ripening of fruits can be accelerated by

- A. Reducing the supply of water to plant when fruits are maturing

B. Increasing the supply of nitrogen to the atmosphere surrounding them

C. Warming up the surrounding artificially

D. Artificially adding ethylene gas to the atmosphere surrounding them

Answer: d



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234. Which of the following for the phytochrome

A. Phytochrome is a phytohormone

B. Phytochrome is a photosynthetic pigment

C. Phytochrome is a pigment that controls growth, photomorphogenesis and development and development of many plants

D. Phytochrome is a regulatory protein that controls several dark-dependant developmental plants

Answer: c

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235. Which one of the following synthetic growth regulators is used to promote synchronized flowering in pineapple

- A. Benzyl aminopurine
- B. Phenylmercuric acetate
- C. Indolebutyric acid
- D. 2-chloroethylphosphoric acid

Answer: d

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236. Which one of the following pairs is incorrectly matched

- (a) Adenine derivative – Kinetin
- (b) Carotenoid derivative – ABA
- (c) Terpenes – IAA
- (d) Indole compounds – IBA
- (e) Gas – Ethylene



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237. The viability of seeds is tested by

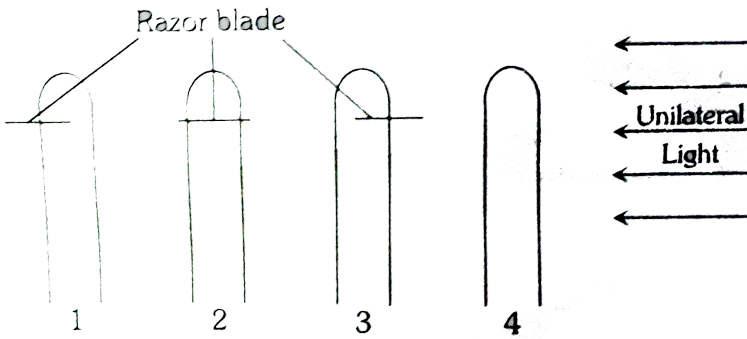
- A. 2,6 dichlorophenol indophenols
- B. 2,3,5 triphenyl tetrazolium chloride
- C. DMSO
- D. Safranine

Answer: b



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238. the given figure shows four coleoptiles set up at the start of an experiment



which two coleoptiles will bend towards the light source

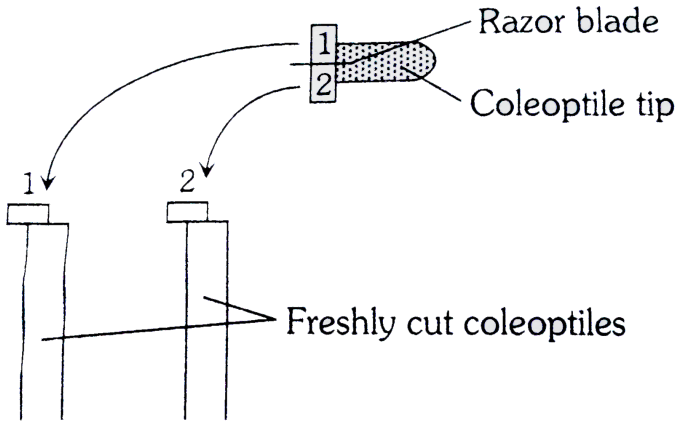
- A. 3 and 4
- B. 2 and 3
- C. 1 and 4
- D. 1 and 2

Answer: a

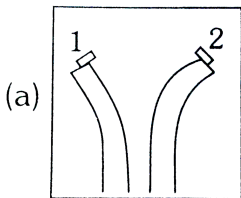


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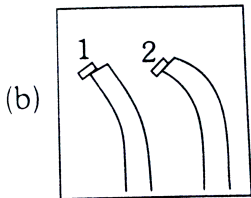
239. Two blocks of Agare 1 and 2 were kept in the positions shown in the diagram below for several hours and then transferred into two freshly cut coleoptiles



After two days of growth of the following would result

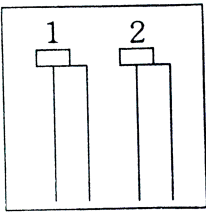


A.



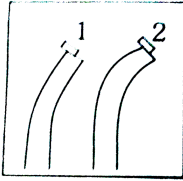
B.

(c)



C.

(d)



D.

Answer: D

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240. One hormone hastens maturity period in juvenile conifers, a second hormone control xylem differentiation , while the third increases the tolerance of plants to various stresses they are respectively

- A. Gibberellin, Auxin, Cytokinin
- B. Auxin, Gibberellins, Cytokinin
- C. Gibberellins, Auxin , ABA

D. Auxin, Gibberellins, ABA

Answer: C



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241. Which of the following enhances or induces fusion of protoplasts

- A. Polyethylene glycol and sodium nitrate
- B. IAA and kinetin
- C. IAA and gibberellins
- D. Sodium chloride and potassium chloride

Answer: A



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242. Seed dormancy can be broken by the following combination of chemicals

- A. GA_3 , IAA and ABA
- B. KNO_3 , GA_3 and Ethylene chlorohydrin
- C. NAA, 2, 4,5-T and IAA
- D. ABA, BAP and GA_3

Answer: B



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243. Seedless fruits can be induced by

- A. ABA and IAA
- B. ABA and Zeatin
- C. IAA and GA_3
- D. Ethylene and ABA

Answer: C



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244. Assertion : Gibberelins induce flowering in long day plants.

Reason : Genetically tall plant become dwarf by application of Gibberellin.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If the assertion and reason is false but reason is true

Answer: C



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245. Assertion: Agent orange is a mixture of 2,4-D and 2,3,4-T , used during Vietnam war.

Reason : 2,4-D and 2,4,5-T are used as herbicides.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If the assertion and reason is false but reason is true

Answer: B



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246. Assertion: Auxins promote apical dominance by suppressing the activeity of lateral buds.

Reason : In Moriculture , periodic pruning of shoot tips is done to make mulberry plants bushy.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If the assertion and reason is false but reason is true

Answer: A

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247. Assertion: "Touch" responses in Mimosa is an example of such movement.

Reason : Nastic movements occur in the direction of stimulus.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If the assertion and reason is false but reason is true

Answer: C



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248. Assertion: Photomodulation of flowering is phytochrome-regulated process.

Reason: Active form of phytochrome (Pfr) directly induces floral induction in shoot buds.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If the assertion and reason is false but reason is true

Answer: C



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249. Assertion: Secondary roots and shoots are plagiogeotropic.

Reason: Plagiogeotropic roots are those which develop at an angle of 45° from the vertical axis.

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If the assertion and reason is false but reason is true

Answer: A



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250. Assertion: The apical bud is the only source of auxins

Reason: Removal of apical bud promotes lateral bud growth.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If the assertion is false but reason is true

Answer: D



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251. Assertion: Cytokinin are antisenescent.

Reason : Effects of cytokinins is antagonistic to ethylene.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If the assertion and reason is false but reason is true

Answer: B



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252. Assertion: Ethylene cause climacteric ripening of fruits.

Reason : Climacteric fruits show a rise in respiration at the time of ripening.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If the assertion and reason is false but reason is true

Answer: B



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253. Assertion: Stratification of seeds may promote their germination.

Reason: stratification promote gibberellin and cytokinins.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If the assertion and reason is false but reason is true

Answer: B

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254. Assertion: Sigmoid growth curve consists of four parts.

Reason : Lag phase is called as grand phase of growth.

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If the assertion and reason is false but reason is true

Answer: C



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255. Assertion: Dark period play more important part in flowering than light period.

Reason : Flowering occurs in short-day plant if the dark period is interrupted by light break.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If the assertion and reason is false but reason is true

Answer: C



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256. Assertion: Phytochrome exists in two forms P_r and P_{fr}

Reasons : P_r form stimulates and P_{fr} form inhibit flowering.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If the assertion and reason is false but reason is true

Answer: A



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257. Assertion: Phytochrome exists in two form P_r and P_{fr} form inhibit flowering.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If the assertion and reason is false but reason is true

Answer: C

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258. Assertion: Floral initiation is done by florigen.

Reason Florigen is translocated from flowers to leaves.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.
- B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion
- C. If the assertion is true but the reason is false
- D. If the assertion and reason is false but reason is true

Answer: C



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259. Assertion: Vernalization is a treatment to plant given artificially.

Reason : Vernalization is perceived by whole plant.

- A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If the assertion and reason is false but reason is true

Answer: B

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260. Assertion: Plant growth as a whole is indefinite.

Reason : Plants retain the capacity of continuous growth throughout their life.

A. If both the assertion and the reason are true and the reason is a correct explanation of the assertion.

B. If both the assertion and reason are true but the reason is not a correct explanation of the assertion

C. If the assertion is true but the reason is false

D. If the assertion and reason is false but reason is true

Answer: A



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261. Cold treatment of seeds of called

Or

Seeds of winter varieties are benefited by this method

A. Vernalization

B. Stratification

C. Devernalization

D. Photophosphorylation

Answer: A



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262. Crescograph was prepared by

- A. Bose
- B. Strasburger
- C. Went
- D. None of the above

Answer: A



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263. In callus culture, roots can be induced by the supply of

- A. Auxin and no cytokinin
- B. Higher amounts of auxin and lower amounts of cytokinin
- C. Higher amounts of cytokinin and lower amounts of auxin
- D. Auxin and cytokinin in equal amounts

Answer: B



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264. Which of the following plant material is widely used in the preparation of culture medium

- A. *Pinus longifolia*
- B. *Cocos nucifera*
- C. *Borassus flabellifer*
- D. *Cycas revoluta*

Answer: B



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265. Exponential growth in plants can be expressed as

A. $L_t = L_0 + rt$

B. $L_e = L_t rt$

C. $W_1 = W_0 e^{rt}$

D. $W_1 = W_0 ert$

Answer: C

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266. Which Hormone is responsible for vernalization

A. Florigen

B. Colchicine

C. Abscission

D. Vernalin

Answer: D

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267. Antiauxin used in picking cotton balls is

- A. NPA
- B. 2-4D
- C. TIBA
- D. Both (a) and (C)

Answer: D



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268. A substance which is used to stimulate the increase in size of the apple fruit is

- A. Morphactin
- B. Promalin
- C. Ethylene

D. Ethapone

Answer: B



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269. Storage sprouting of potato can be prevented by

A. IAA

B. Maleic hydrazide

C. Cytokinins

D. Gibberellins

Answer: B



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270. A substance isolated from herring sperm DNA and named as 'kinetin' by

- A. Miller
- B. Skoog
- C. Saltza and Strong
- D. All the above

Answer: A



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