BIOLOGY

BOOKS - EVERGREEN BIOLOGY (ENGLISH)

CHEMICAL COORDINATION IN PLANTS

Review Questions

1. Name the following:

A growth inhibitor.

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2. Name the following:

A gaseous hormone.

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3. Name the following:

The tropic movement in response to the stimulus of the chemicals.

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4. Name the following:

Growth movements made by plants in response to contact (touch) with a solid object.

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5. Name the following:

A flower bud which is positively geotropic but when the flower opens it shows negative geotropism

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6. Name the following:

A special apparatus in which if a plant is rotated neutralizes the effect of gravity.

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7. Name the following:

The movement of plant parts in response to the force of gravity.

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8. Name the following:

A plant hormone which breaks the dormancy of buds and seeds.

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9. Choose the correct alternative :

Which is an auxin?

ATP

Pyruvic acid

Phosphoglyceric acid

Indole acetic acid

A. ATP

B. Pyruvic acid

C. Phosphoglyceric acid

D. Indole acetic acid

Answer:

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10. Choose the correct alternative :

The growth rate is highest in which light?

1. Red Light

2. White light

3. Green light

4. Blue light

A. Red light

B. White light

C. Green light

D. Blue light

Answer:

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11. Choose the correct alternative :

Plant hormones are:

1. Growth regulators

2. Growth promoters

3. Growth inhibitors

4. All of these

A. Growth regulators

B. Growth promoters

C. Growth inhibitors

D. All of these

Answer:

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12. Choose the correct alternative :

Geotropic response is perceived by:

1. Mature roots

2. Elongating roots

3. Root cap

4. Root hairs

A. Mature roots

B. Elongating roots

C. Root cap

D. Root hairs

Answer:

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13. Choose the correct alternative :

Which one of the following is a natural growth inhibitor ?

1. NAA

2. ABA

3. IAA

4. GA

A. NAA

B. ABA

C. IAA

D. GA

Answer:

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14. Choose the correct alternative :

Gibberellin promotes cell division and elongation in:

1. Leaves

2. Roots

3. Shoots

4. All of these

A. Leaves

B. Roots

C. Shoots

D. All of these

Answer:

15. Choose the correct alternative :

Movements induced in plants by external

Movements induced in plants by external

A. Tactic movement

B. Tropic movement

C. Nastic movement

D. All of these

Answer:

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16. Choose the correct alternative :

Auxins were first discovered by which scientist while experimenting on oat plant (Avena sativa) ?

1. F W Went

2. Darwin

3. Boysen Jensen

4. None of these

A. F W Went

B. Darwin

C. Boysen Jensen

D. None of these

Answer:

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17. Fill in the blanks with suitable words :

All changes that an organism goes through during its life cycle is called .....

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18. Fill in the blanks with suitable words :

Synthetic auxins are used as .....

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19. Fill in the blanks with suitable words :

Movement of fungal hyphae towards ..... and peptones is called chemotropism.

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20. Fill in the blanks with suitable words :

..... are situated below the bark and is responsible for increase in the diameter of the stem.

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..... And ..... are growth inhibitors.

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Auxins were isolated initially from the urine of humans who suffered from a disease called .....

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Mosses and ..... are ciliated and move about in water.

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Roots are ..... hydrotropic as they bend towards the source of water.

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29. Mention if the following statements are true or false,

By application of gibberellins bolting can be induced artificially in cabbage.

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30. Mention if the following statements are true or false,

The examples of synthetic auxins are IAA and IBA.

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31. Mention if the following statements are true or false,

The secondary roots and branches place themselves at right angles to the force of gravity and are called diaphototropic.

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32. Mention if the following statements are true or false,

Gibberellins were first isolated from an algae

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Hydrotropic movements are more powerful

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The growth regulators are called as Phytohormones.

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In flowering plant, a period of vegetative phase is followed by reproductive phase.

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Senescence is separation of leaves, flowers and fruits from the plant body.

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Some organs of plants do not respond to geotropic stimulus and are called Ageotropic.

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Gibberellins are basic in nature.

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In unicellular plants, there is overall growth and not confined to any specific region but in multicellular plants, growth is restricted to specific regions having meristematic cells.

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41. Give reasons for the following facts:

Dry seeds do not germinate.

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42. Give reasons for the following facts:

Plants bend towards the source of light.

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When apical bud is removed, the next axial bud begins to grow.

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48. Match the following:

Column I	Column II
1. Response to gravity	Thigmotropism
2. Response to touch	Hydrotropism
3. Response to temperature	Phototropism
4. Response to light	Thermotropism
5. Response to water	Chemotropism
6. Response to chemicals	Geotropism

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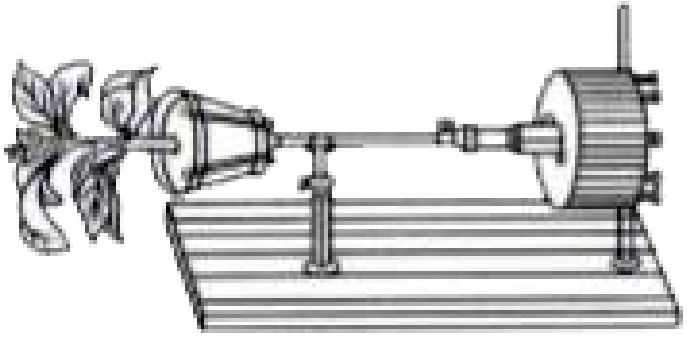
49. The diagram given below is an instrument which is used to eliminate the effect of gravity



Name the instrument.

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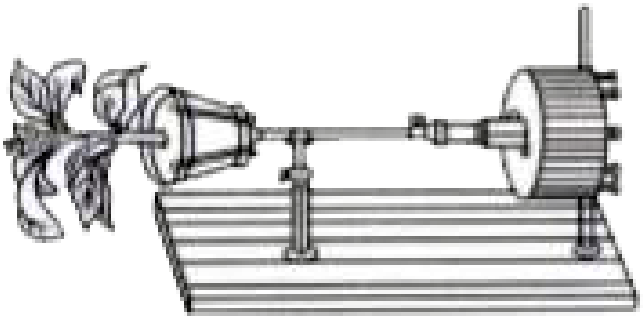

What is the use of this instrument in this experiment?

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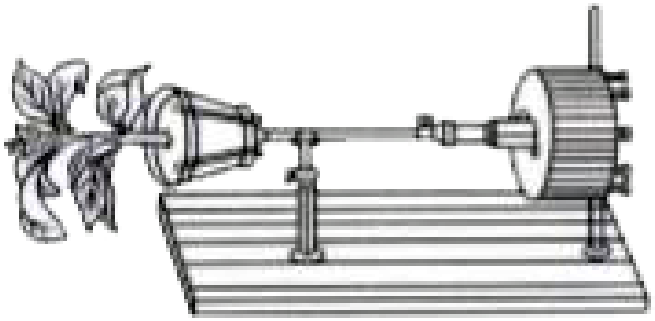

Why does the plant grow straight?

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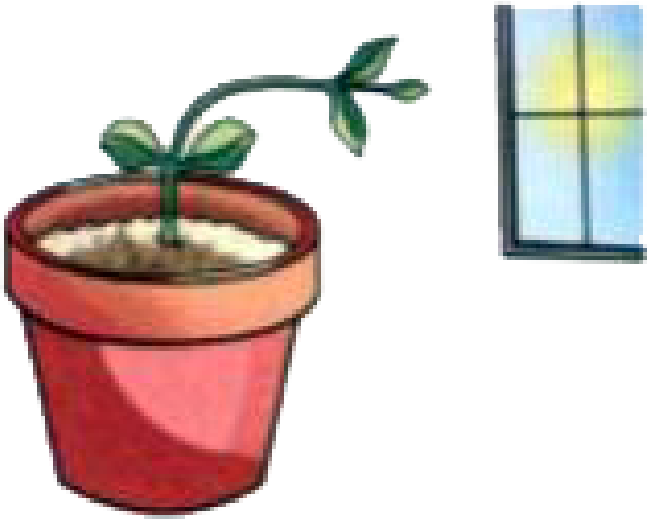
52. The diagram shows some movement in plants.



What is the aim of the experiment?

Watch Video Solution

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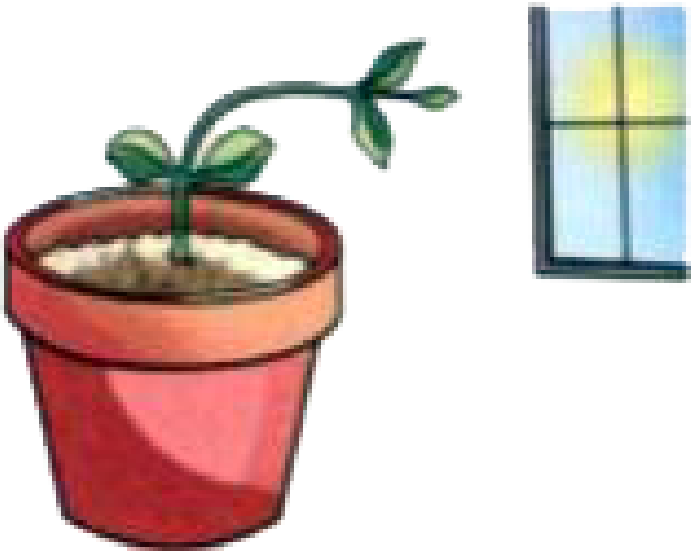

Why does the plant move towards the light source?

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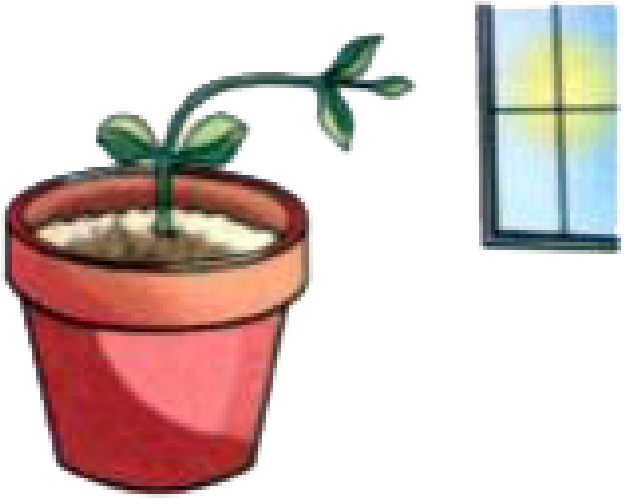
54. The diagram shows some movement in plants.



What is geotropism?

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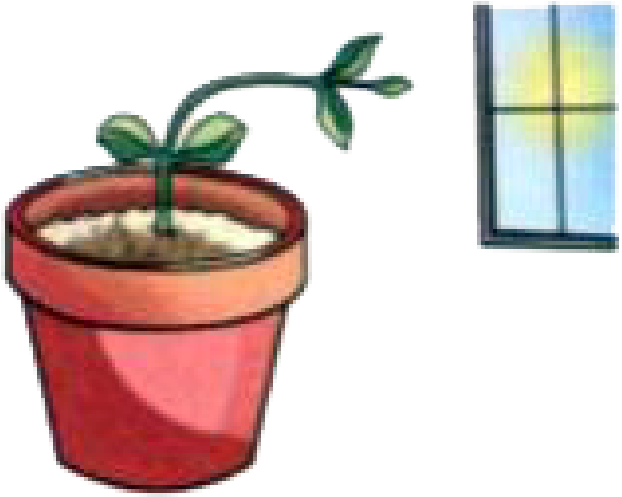

What are tropic movements?

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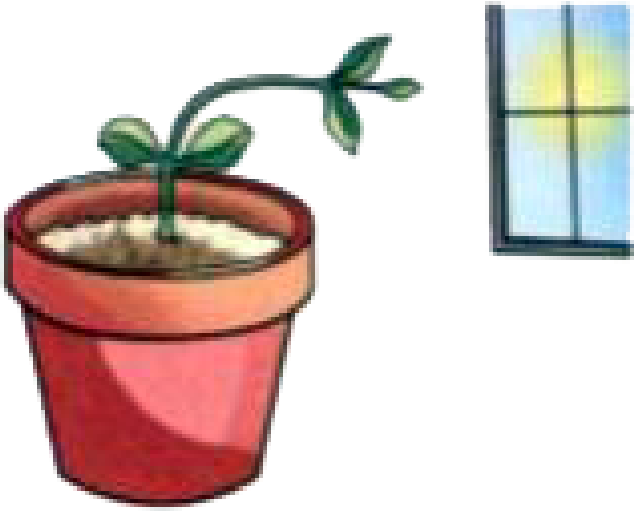
56. The diagram shows some movement in plants.



What will happen if the light source is removed from the experiment?

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57. List any four uses of auxins.

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58. What is the full form of: IAA, NAA and IBA?

59. In a wheat field, some broad leaved weeds were seen by a farmer. Which plant hormone would you suggest to get rid of them?

60. Define growth regulators.

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61. Explain briefly apical dominance. Name the hormone that controls it.

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62. Give one significant difference between each of the following:

Geotropism and Phototropism

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63. Give one significant difference between each of the following:

Auxins and Gibberellins

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64. Give one significant difference between each of the following:

Plant growth regulators and Plant Growth Inhibitors

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65. Give one significant difference between each of the following:

Thigmotropism and Chemotropism

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66. Give one significant difference between each of the following:

Movement and Locomotion

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67. Explain what would happen if:

Gibberellins are applied to cabbage plant.

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68. Explain what would happen if:

Cytokinins are applied to a plant externally.

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69. Explain what would happen if:

Ethylene is sprayed on a mango tree

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70. Explain what would happen if:

A flower is emasculated and auxin is applied to its stigma

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71. Explain what would happen if:

A plant is kept near an open window

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72. Explain the following terms:

Bolting

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73. Explain the following terms:

Parthenocarpy

Watch Video Solution

74. Explain the following terms:

Morphogenesis

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75. Explain the following terms:

Differntiation

Watch Video Solution

76. Explain the following terms:

Phytohormone

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77. The chemical substance P is made and secreted by the meristematic tissue at the tip of stem (or shoot) of a plant. The chemical substance P is responsible for a phenomenon Q in plants in which the stem bends towards the source of light. The same chemical

substance P has an opposite effect on the root of a plant. It causes the root of a plant to bend away from the source of light in a process called R.

What is the chemical substance P ?

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Q in plants in which the stem bends towards the source of light. The same chemical substance P has an opposite effect on the root of a plant. It causes the root of a plant to bend away from the source of light in a process called R.

State whether P prefers to remain in the sunlit side of a stem or in shade.

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What is the effect of substance P on the rate

of growth of

(a) a root and (b) a stem?

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of a plant. It causes the root of a plant to bend away from the source of light in a process called R.

What is the name of the process

(a) Q and (b) R ?

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Q in plants in which the stem bends towards the source of light. The same chemical substance P has an opposite effect on the root of a plant. It causes the root of a plant to bend away from the source of light in a process called R.

What is the general name of the chemical substance like P ? Name another substance which belongs to this class of chemical substances.

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82. Write the functions of Phytoharmones.

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83. What is meant by positive tropism and negative tropism?

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84. What is tendril? Name any two types of tendrils.

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85. Expand the following biological abbreviations

(i) (ABA)

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86. Expand the following biological abbreviations

(ii) (IAA)

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87. Given below is an experimental setup to demonstrate a particular tropic movement in germinating seeds. Study the diagram and answer the questions that follow :

Label the parts 1 and 2.

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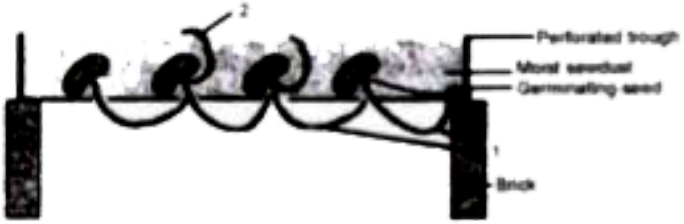
88. Given below is an experimental setup to demonstrate a particular tropic movement in germinating seeds. Study the diagram and answer the questions that follow :



Name the tropic movement shown by part 1.

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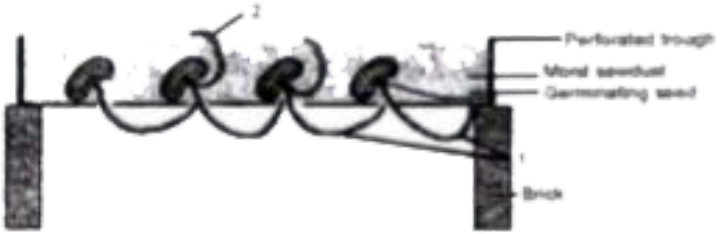
89. Given below is an experimental setup to demonstrate a particular tropic movement in germinating seeds. Study the diagram and answer the questions that follow :



Part 1 is affected by two stimuli. Name them. Which one of the two is stronger

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90. Given below is an experimental setup to demonstrate a particular tropic movement in germinating seeds. Study the diagram and answer the questions that follow :

What is Thigmotropism 2 Give one example,

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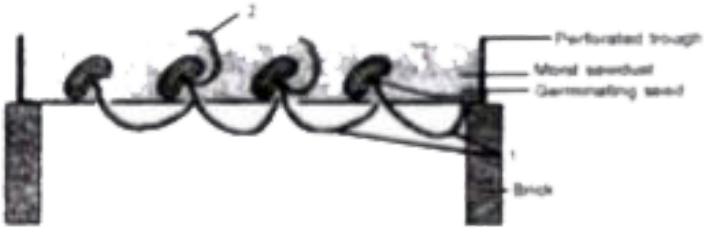

What is meant by Positive and negative tropic movements in plants

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92. State the main functions of the following:

Cytokinins

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93. What is Parthenocarpy ? Give one example.

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94. Match the following

Column-I	Column-II
(A) Acetone + Carbon disulphide	(p) Vapour pressure measurement
(B) Acetone + Aniline	(q) Osmotic pressure measurement
(C) Berkely and Hartley's method	(r) Maximum boiling azeotrope
(D) Ostwald-Walker's method	(s) Minimum boiling azeotrope

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A gaseous hormone.

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The tropic movement in response to the stimulus of the chemicals.

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Growth movements made by plants in response to contact (touch) with a solid object.

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The growth rate is highest in which light?

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Plant hormones are: a)Growth regulators b)Growth promoters c)Growth inhibitors d)All of these

A. Growth regulators

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Geotropic response is perceived by:

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Which one of the following is a natural growth inhibitor ?

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Auxins were first discovered by which scientist while experimenting on oat plant (Avenasativa) ?

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125. State True or False

(i) Chromosomal aberrations are commonly

observed in cancer cells

(ii) Mutation is the only phenomenon that leads to variation in DNA.

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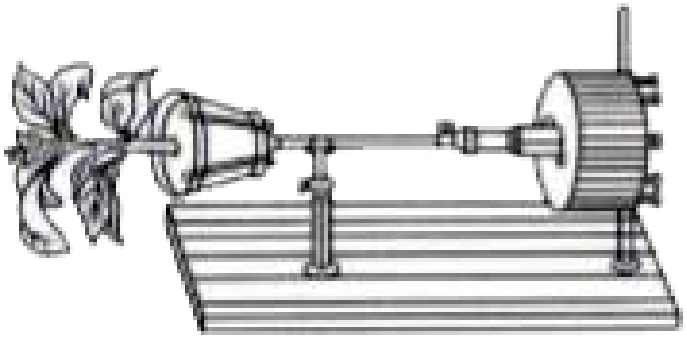

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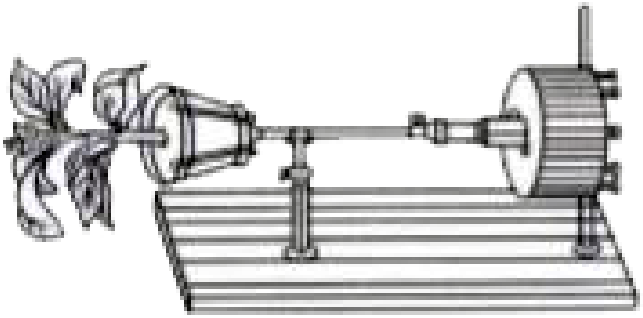

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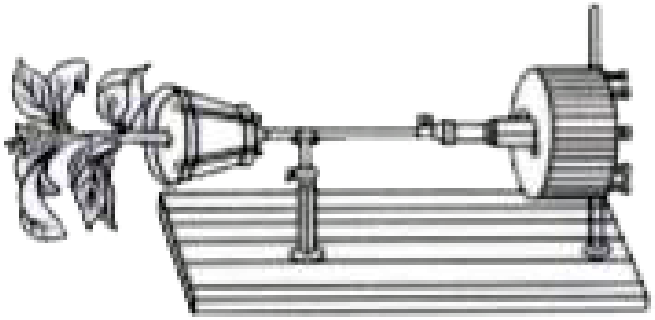

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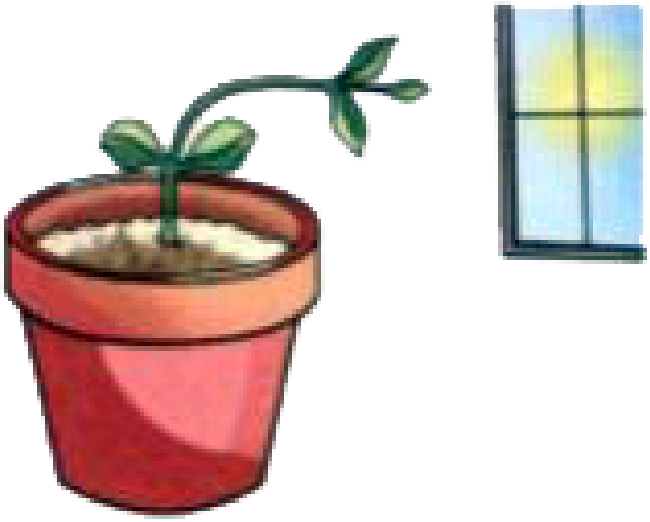

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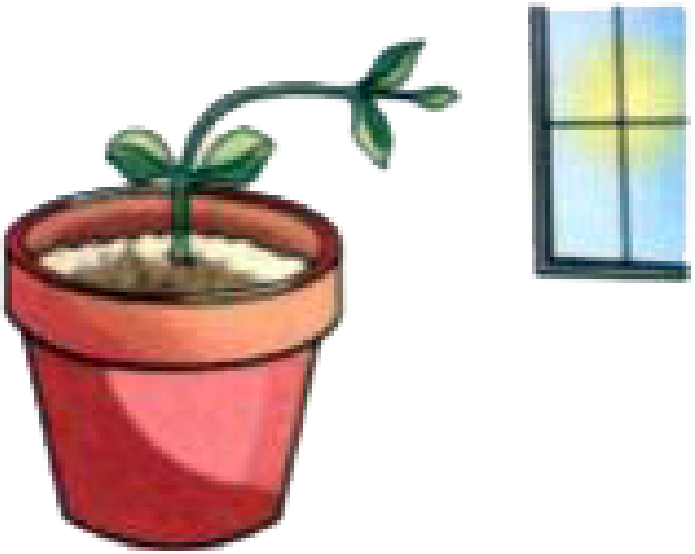

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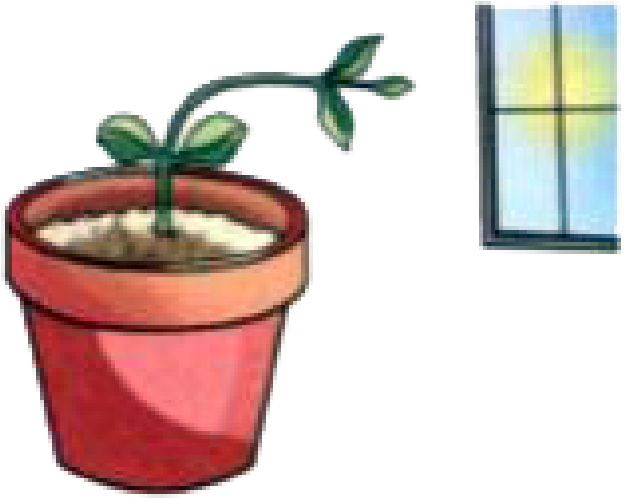

What is geotropism?

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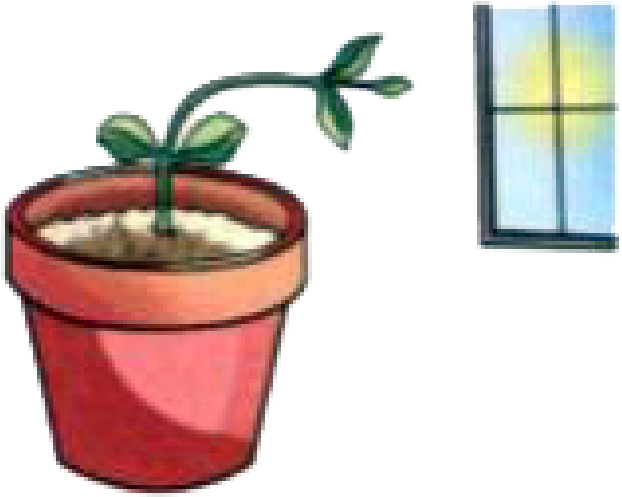
148. The diagram shows some movement in plants.



What are tropic movements?

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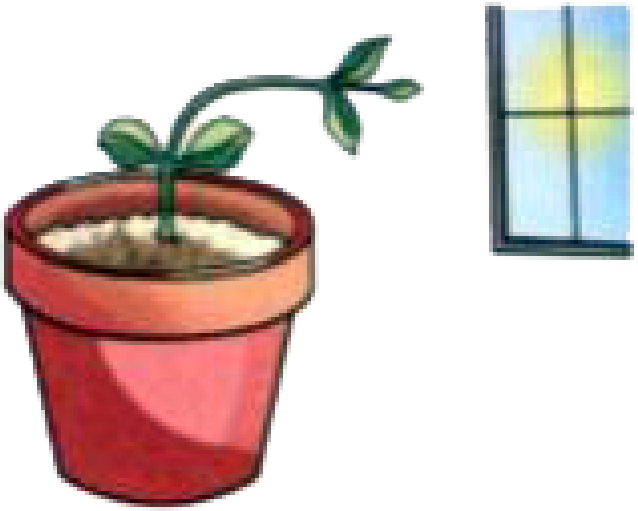
149. The diagram shows some movement in plants.



What will happen if the light source is removed from the experiment?

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150. List any four uses of auxins.

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151. What is the full form of: IAA, NAA and IBA?

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152. In a wheat field, some broad leaved weeds were seen by a farmer. Which plant hormone would you suggest to get rid of them?

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153. Define growth regulators.

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154. Explain briefly apical dominance. Name the hormone that controls it.

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155. Give one significant difference between each of the following:

Geotropism and Phototropism

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156. Give one significant difference between each of the following:

Auxins and Gibberellins

Watch Video Solution

157. Give one significant difference between each of the following:

Plant growth regulators and Plant Growth Inhibitors

Watch Video Solution

158. Give one significant difference between each of the following:

Thigmotropism and Chemotropism

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159. Give one significant difference between each of the following:

Movement and Locomotion

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160. Explain what would happen if:

Gibberellins are applied to cabbage plant.

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161. Explain what would happen if:

Cytokinins are applied to a plant externally.

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162. Explain what would happen if:

Ethylene is sprayed on a mango tree

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163. Explain what would happen if:

A flower is emasculated and auxin is applied to its stigma

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164. Explain what would happen if:

A plant is kept near an open window

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165. Explain the following terms:

Bolting

Watch Video Solution

166. Explain the following terms:

Parthenocarpy

Watch Video Solution

167. Explain the following terms:

Differntiation

Watch Video Solution

168. Explain the following terms:

Differentiation

Watch Video Solution

169. Explain the following terms:

Phytohormone

Watch Video Solution

170. The chemical substance P is made and secreted by the meristematic tissue at the tip of stem (or shoot) of a plant. The chemical substance P is responsible for a phenomenon Q in plants in which the stem bends towards the source of light. The same chemical

substance P has an opposite effect on the root of a plant. It causes the root of a plant to bend away from the source of light in a process called R.

What is the chemical substance P ?

Watch Video Solution

171. The chemical substance P is made and secreted by the meristematic tissue at the tip of stem (or shoot) of a plant. The chemical substance P is responsible for a phenomenon

Q in plants in which the stem bends towards the source of light. The same chemical substance P has an opposite effect on the root of a plant. It causes the root of a plant to bend away from the source of light in a process called R.

State whether P prefers to remain in the sunlit side of a stem or in shade.

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172. The chemical substance P is made and secreted by the meristematic tissue at the tip of stem (or shoot) of a plant. The chemical substance P is responsible for a phenomenon Q in plants in which the stem bends towards the source of light. The same chemical substance P has an opposite effect on the root of a plant. It causes the root of a plant to bend away from the source of light in a process called R.

What is the effect of substance P on the rate

of growth of

(a) a root and (b) a stem?

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173. The chemical substance P is made and secreted by the meristematic tissue at the tip of stem (or shoot) of a plant. The chemical substance P is responsible for a phenomenon Q in plants in which the stem bends towards the source of light. The same chemical substance P has an opposite effect on the root

of a plant. It causes the root of a plant to bend away from the source of light in a process called R.

What is the name of the process

(a) Q and (b) R ?

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174. The chemical substance P is made and secreted by the meristematic tissue at the tip of stem (or shoot) of a plant. The chemical substance P is responsible for a phenomenon

Q in plants in which the stem bends towards the source of light. The same chemical substance P has an opposite effect on the root of a plant. It causes the root of a plant to bend away from the source of light in a process called R.

What is the general name of the chemical substance like P ? Name another substance which belongs to this class of chemical substances.

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175. Write the functions of Phytoharmones.

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176. What is meant by positive and negative adsorptions?

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177. What is tendril? Name any two types of tendrils.

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178. Expand the following biological abbreviations

(ii) (IAA)

Watch Video Solution

179. Expand the following biological abbreviations

(ii) (IAA)

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180. Given below is an experimental setup to demonstrate a particular tropic movement in germinating seeds. Study the diagram and answer the questions that follow :

Label the parts 1 and 2.

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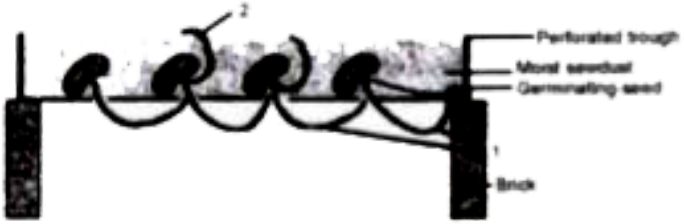
181. Given below is an experimental setup to demonstrate a particular tropic movement in germinating seeds. Study the diagram and answer the questions that follow :



Name the tropic movement shown by part 1.

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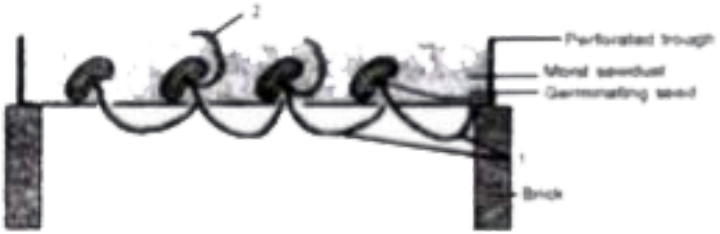
182. Given below is an experimental setup to demonstrate a particular tropic movement in germinating seeds. Study the diagram and answer the questions that follow :



Part 1 is affected by two stimuli. Name them. Which one of the two is stronger

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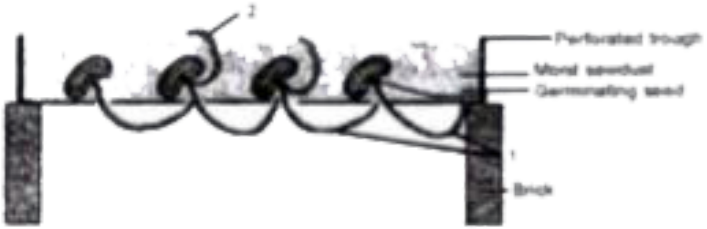
183. Given below is an experimental setup to demonstrate a particular tropic movement in germinating seeds. Study the diagram and answer the questions that follow :

What is Thigmotropism 2 Give one example,

Watch Video Solution

184. Given below is an experimental setup to demonstrate a particular tropic movement in germinating seeds. Study the diagram and answer the questions that follow :



What is meant by Positive and negative tropic movements in plants

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185. State the main functions of the following:

Cytokinins

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186. What is Parthenocarpy ? Give one example.

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