



BIOLOGY

BOOKS - CHETANA PUBLICATION

PLANT WATER RELATION

Example

1. Which are the various parts of plant body?

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2. What are the functions of various parts of plant body?

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3. Which plant tissues are involved in transport of water and minerals?

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4. What is the main source of water for plants?

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5. Water is considered as 'elixir of life'.

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6. Write the uses of water in plants.

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7. What are main properties of water?



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8. What are the meanings of specific heat, heat of vaporization and heat of fusion?



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9. What are adhesive and cohesive forces?



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10. What is a hydrogen bond?



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11. What is velamen and where do you find them?



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12. Describe regions of Root.



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13. Describe structure of root hair.



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14. What is rhizosphere?



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15. What are the different types of water present in soil?



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16. List different types of water.

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17. Which type of water is available to the plants for absorption?

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18. Which are the physical processes involved in absorption of water?

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19. Define the terms : Osmosis, diffusion, imbibition, DPD, turgor pressure, wall pressure.

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20. Define Osmotic pressure

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21. Write a note on Faciliated diffusion?

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22. Compare Exo-osmosis and Endo-osmosis

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23. Explain the terms: Endo-osmosis

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24. Explain the terms: Exo-osmosis



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25. What are hypotonic, hypertonic and isotonic solutions?



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26. Enlist the importance of Turgor pressure



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27. Why do the wooden doors become very hard to close and open in rainy season.



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28. When you burn an incense stick in one corner of a room, its fragrance spreads all over the room in a short time. How does it happen?

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29. Distinguish between: Diffusion and osmosis

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30. What is the importance of Osmosis?

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31. Sketch and label a diagram to explain the diffusion of water into plant cell across plasma membrane.

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32. What is solute potential?

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33. Briefly described water potential?

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34. What are the factors affecting water absorption?

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35. What happens when a pressure greater than the atmospheric pressure is applied to pure water or a solution?

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36. What is the unit of water potential?

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37. Name the condition in which protoplast of the plant cell shrinks.

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38. What is deplasmolysis?

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39. Which type of solution will bring about deplasmolysis?

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40. Define Plasmolysis.

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41. Define Root pressure.



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42. Write on the journey of water from soil to xylem in roots.

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43. Explain movement of water in the root.

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44. Differentiate between Apoplast and Symplast Pathway.

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45. Mention any two characteristics of active absorption.

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46. Define Active and Passive absorption.

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47. Differentiate between Active and Passive Absorption.

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48. Describe mechanism for absorption of water.

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49. List and explain two mechanism of water absorption.

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50. Write a note on Non-osmotic absorption.



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51. List and explain two mechanism of water absorption.

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52. Define: Sap

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53. Define : Ascent of Sap.

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54. What is exudation (bleeding).

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55. Which instrument is used to measure root pressure?

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56. Which type of plants have negative root pressure?

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57. What is the importance of root pressure?

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58. Enlist the different theories to put forth the mechanism of translocation of water.

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59. Discuss theories of water translocation.



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60. What are the limitations of root pressure theory?



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61. Explain the terms: Cohesive force



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62. Explain the terms: Adhesive force



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63. Explain the terms: Transpiration pull



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64. Explain the terms: Surface tension



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65. Define Root pressure.



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66. Sketch and label the diagram to show the experiment on root pressure.



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67. Explain capillarity theory in connection with translocation of water.



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68. What are the limitations of capillarity theory?

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69. Explain cohesion theory for translocation of water.

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70. Explain the terms: Transpiration pull

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71. What are the objections of transpiration pull?

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72. Enlist macronutrients and micronutrients required for plant growth.

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73. How are the minerals absorbed by the plant?

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74. Different modes of passive absorption and active absorption of mineral in plants.

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75. Carrier concept of active absorption?

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76. Enlist macronutrients and micronutrients required for plant growth.

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77. What essential roles do the root endodermis play during water-mineral absorption in plants.

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78. What is translocation of organic solutes?

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79. Name the special conducting tissue to translocate food in plants?

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80. Which part of plant is referred as the supply end and sink end?

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81. Who explained the mechanism of translocation of organic food?

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82. What is translocation of food in plants. Explain.

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83. Write the mechanism of sugar transport through phloem.

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84. Define and or explain the terms : Transpiration



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85. Define and or explain the terms : Guttation



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86. What is translocation?



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87. Explain the role of transpiration.



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88. What is terminator? What is its significance in transcription?



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89. Describe in brief the three types of transpiration.

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90. What are the harmful effects of transpiration.

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91. Mention the shape of guard cells in Cyprus.

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92. With the help of a neat and labeled diagram describe the guard cells in monocot and dicot plants.

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93. Why do diurnal changes occur in osmotic potential of guard cells?

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94. Why is transpiration called a necessary evil?

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95. Describe mechanism of opening and closing of stomata.

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96. Who explained the mechanism of opening and closing of stomata.

 [Watch Video Solution](#)

97. Give an account of stomatal transpiration.



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98. Describe mechanism of opening and closing of stomata.



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99. Who referred transpiration as unavoidable evil and necessary evil?



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100. Distinguish between : Evaporation and Transpiration.



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101. Distinguish between : Guttation and Transpiration.



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102. What is hydroponics? How is it useful in identifying the role of nutrients.

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Exercise

1. In soil water available for absorption by root is

- A. gravitational water
- B. capillary water
- C. hygroscopic water
- D. combined water

Answer:

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2. The most widely accepted theory for ascent of sap is

- A. capillarity theory
- B. root pressure theory
- C. diffusion
- D. transpiration pull theory

Answer:



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3. Water movement between the cells is due to

- A. TP
- B. WP
- C. DPD
- D. incipient plasmolysis

Answer:



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4. In guard cells, when sugar is converted into starch the stomatal pore.....

- A. closes almost completely
- B. opens partially
- C. opens fully
- D. remains unchanged

Answer:



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5. Surface tension is due to

A. diffusion

B. Osmosis

C. gravitational force

D. Cohesion

Answer:



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6. Which of the following types of solution has lower level of solutes than the solution?

A. Isotonic

B. Hypotonic

C. Hypertonic

D. Anisotonic

Answer:

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7. During rainy season wooden doors warp and become difficult to open or to close because of

- A. Plasmolysis
- B. Imbibition
- C. Osmosis
- D. Diffusion

Answer:

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8. Water absorption takes place through.....

- A. lateral roots
- B. root cap

C. root hair

D. primary root

Answer:



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9. Due to low atmospheric pressure the rate of transpiration will.....

A. increase

B. decrease rapidly

C. decrease slowly

D. remain unaffected

Answer:



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10. Osmosis is a property of.....

- A. solute
- B. solvent
- C. solution
- D. membrane

Answer:



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11. Root hair will absorb water when external solution is.....

- A. Viscous
- B. Isotonic
- C. Hypertonic
- D. Hypotonic

Answer:



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12. Absorption of water involving the activity of root is called.....

- A. Active absorption
- B. Imbibition
- C. Passive absorption
- D. Diffusion

Answer:



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13. Uptake of water at the expenses of metabolic energy is known as.....

- A. Endosmosis

B. Diffusion

C. Active absorption

D. Passive absorption

Answer:



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14. Maximum transpiration occurs through.....

A. Stomate

B. Cuticle

C. Lenticels

D. Barle

Answer:



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15. Water in plants rises through.....

- A. xylem
- B. phloem
- C. pith
- D. cortex

Answer:



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16. Guard cells are associated with.....

- A. Lenticels
- B. Hydathodes
- C. Stomata
- D. Epiblema

Answer:



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17. Three compartments of a cell are.....

- A. cell wall, vacuole and protoplasm
- B. cell wall, plasma membrane and cytoplasm
- C. cell wall, chloroplast and mitochondria
- D. cell wall, tonoplast and chloroplast

Answer:



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18. An example of a not selectively permeable membrane is.....

- A. plasmalemma

B. cell wall

C. mitochondrial membrane

D. chloroplast membrane

Answer:



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19. Purple cabbage leaves do not lose their colour in cold water but they do so in boiling water because

A. The plasma membrane gets killed in boiling water

B. hot water can enter the cells readily

C. the pigment is not soluble in cold water

D. the cell wall is killed in boiling water

Answer:



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20. Uniformly sweet taste of tea or coffee is due to

- A. spreading
- B. osmosis
- C. permeability
- D. Diffusion

Answer:



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21. In plants, the semipermeable membrane allows the diffusion of.....

- A. solvent
- B. solute
- C. bothe a and b
- D. none of these

Answer:



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22. Water potential in a cell of root hair absorbing the water is.....

- A. zero
- B. less than zero
- C. more than zero
- D. more than that of soil and water

Answer:



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23. To initiate plasmolysis in plant cells the salt solution used as.....

- A. hypertonic

B. Hypotonic

C. isotonic

D. atonic

Answer:



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24. In pickles, infection is rare due to

A. Plasmolysis

B. decrease in osmotic potential by salt

C. increase in osmotic potential by salt

D. decrease in temperature by salt

Answer:



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25. Why plants die when overfertilized ?

- A. As a result of dehydration
- B. Due to damage of walls of root hairs
- C. Due to blockage of nitrogenous ions
- D. Due to upsets in soil environment by poisonous soil bacteria

Answer:



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26. A plasmolysed cell can be deplasmolysed by placing it in.....

- A. saturated solution
- B. pure water or hypotonic solution
- C. isotonic solution
- D. hypertonic solution

Answer:



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27. Plant cell do not burst in distilled water because the cell wall is.....

- A. elastic, rigid and get stretched
- B. living
- C. the outermost layer in planet cell
- D. permeable

Answer:



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28. If a plant cell is immersed in water, the water continues to enter the cell until the

- A. concentration of the salt is the cell as outside
- B. cell bursts
- C. diffusion pressure is the same inside cell as outside
- D. concentration water is the same in the cell as outside

Answer:

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29. Plant cell submerged in distilled water become

- A. flaccid
- B. turgid
- C. plasmolysed
- D. impermeable

Answer:

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30. Turgidity in plant cells maintain by

- A. Osmotic pressure
- B. Wall pressure
- C. Turgor pressure
- D. Diffusions pressure

Answer:



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31. The turgor pressure of turgid cell is equal and opposite to

- A. root pressure
- B. Wall pressure
- C. diffusion pressure

D. all the above

Answer:



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32. Wooden doors swell up and get stuck up during rainy season due to

A. imbibition

B. endosmosis

C. capillarity

D. deplasmolysis

Answer:



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33. Many transplanted seedling may not survive because.....

- A. most of the root hair are lost during transplantation
- B. the leaves get damaged during the transfer
- C. they do not get the required mineral
- D. they do not like the new soil

Answer:



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34. Write on the journey of water from soil to xylem in roots.

A. $m \rightarrow xy \leq m \rightarrow pro \rightarrow xy \leq m \rightarrow c$ or $tex \rightarrow \sqrt[n]{air}$

B.

c or $tex \rightarrow \sqrt[n]{air} \rightarrow endodermis \rightarrow \rightarrow protexy \leq m \rightarrow m \rightarrow m$

C.

soil → $\sqrt[3]{\text{air}}$ → *c* or *tex* → *endodermis* → *pericyc* ≤ → *pro* → *xy* ≤

D.

pericyc ≤ → *soil* → $\sqrt[3]{\text{air}}$ → *c* or *tex* → *endoermis* → *pro* →

Answer:

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35. Casparian strips are located in

A. root cap

B. root hair

C. endodermis

D. none of these

Answer:

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36. The water absorption through the roots due to transpiration pull is called

- A. active
- B. passive
- C. both a and b
- D. none of these

Answer:



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37. Ascent of sap in plants explains.....

- A. diffusion of water
- B. loss of water from leaves
- C. the vertical rise of water in stem against the force of gravity

D. building up of organic food

Answer:



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38. Water in plants is transported by

A. Cambium

B. pholem

C. xylem or xylem vessel elements

D. epidermis

Answer:



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39. Root pressure is maximum when

- A. transpiration is high and absorption is very low
- B. transpiration is very low and absorption is high
- C. transpiration is very high and absorption is also high
- D. transpiration and absorption both are low

Answer:

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40. Root pressure is absent in

- A. rapidly transpiring plants
- B. conifers
- C. plant growing in cold soils
- D. all of these

Answer:

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41. The absorbed water can rise to highest point by

- A. root pressure
- B. imbibition force
- C. force of capillary
- D. transpiration pull

Answer:



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42. The mechanism by which water moves from roots to leaves is called.....

- A. De Vries Cytoplasmic Streaming Theory
- B. Munch's Pressure Flow Theory
- C. Translocation of Solutes

D. Dixon's Theory of Cohesion

Answer:



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43. The force responsible for raising water in 100 ft tall plant is

- A. transpiration pull
- B. root pressure
- C. air pressure
- D. capillary action

Answer:



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44. Cohesive force of water is between

- A. water and water
- B. cell wall and cell wall
- C. water and cell wall
- D. attraction

Answer:

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45. Transpiration- cohesion - tension theory operates in

- A. Active absorption
- B. passive absorption
- C. both active and passive
- D. none of these

Answer:

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46. Rate of water absorption can be increase through

- A. decreased transpiration
- B. decreased ion absorption
- C. increased photosynthesis
- D. increased transpiration

Answer:



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47. Rate of water absorption is slow near freezing point because

- A. water absorption is a metabolic process
- B. cell growth stops
- C. transpiration is reduced

D. cell membrane become more viscous

Answer:



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48. Which of the following is called necessary evil?

A. Osmosis

B. Absorption

C. Transpiration

D. Photosynthesis

Answer:



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49. "Transpiration is a necessary evil" was given by

A. Steward

B. Bose

C. Anderson

D. curtis

Answer:



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50. Transpiration occurs in

A. leaves

B. stems

C. all aerial parts

D. roots

Answer:



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51. In plants, the process of transpiration helps in

- A. absorption of O_2
- B. upward conduction of water and minerals
- C. absorption CO_2
- D. opening of stomata

Answer: upwards translocation of water



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52. In lenticular transpiration, loss of H_2O in the form of water vapour is through

- A. Openings present on stem and fruits
- B. stomatal opening present on leaves and on green stem
- C. the cuticle present on the surface of stem and leaves

D. none of these

Answer:



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53. Which of the following is not a the type of transpiration ?

- A. Stomatal transpiration
- B. Cuticular transpiration
- C. Lenticular transpiration
- D. Endodermal transpiration

Answer:



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54. The rate of transpiration is practically nil during

- A. 50% relative humidity
- B. 60% relative humidity
- C. 100% relative humidity
- D. 0% relative humidity

Answer:

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55. Minimum transpiration is found in

- A. hydrophytes
- B. mesophytes
- C. xerophytes
- D. lithophytes

Answer:

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56. Wilting appears due to excessive.....

- A. respiration
- B. absorption
- C. photosynthesis
- D. transpiration

Answer:



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57. Stomata in angiosperms open and close due to

- A. their genetic constitution
- B. effect of hormones
- C. changes of turgor pressure in guard cells

D. pressure of gases inside the leaves

Answer:



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58. Which of the following is the most likely cause for wider opening of stomata?

A. The atmosphere outside the stomata is becoming less humid

B. Secretions of salt molecules by the adjacent guard cells is taking place

C. Water molecules enter guard cells

D. The night temperature is going to fall

Answer:



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59. Transpiration pull will be maximum under which of the following conditions?

- A. Open stomata, high humid atmosphere and well irrigated soil
- B. Open stomata, dry atmosphere and moist soil
- C. Open stomata, high humid atmosphere and dry soil
- D. Closed stomata, low light intensity and humid atmosphere

Answer:



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60. In which of the following situation, the stomata transpiration exhibits a steep decline?

- A. High O_2
- B. High CO_2
- C. Dry air

D. Full water saturation of the plant

Answer:



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61. In hypertonic solution, the water potential of a cell.....

A. decreases

B. increases

C. first increases and then decreases

D. does not change

Answer:



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62. A cell is plasmolyzed after being kept in a hypertonic solution. What will be prescribed between cell wall and plasmalemma?

- A. isotonic solution
- B. hypertonic solution
- C. air
- D. hypotonic solution

Answer:



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63. Water is absorbed when outside solution is

- A. hypertonic
- B. Hypotonic
- C. isotonic
- D. none of these

Answer:



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64. Osmosis involves

- A. diffusion of suspended particles higher to lower concentration
- B. diffusion of suspended particles for lower to higher concentration
- C. diffusion of water from more to less concentrated side
- D. diffusion of water from less to more concentrated side

Answer:



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65. Which of the following is against concentration gradient?

- A. Transpiration

B. Translocation

C. Diffusion

D. Osmosis

Answer:



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66. The pressure exerted by cell wall to balance the turgor pressure is called.....

A. wall pressure

B. osmotic pressure

C. DPD

D. imbibition pressure

Answer:



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67. If cells completely lack turgor pressure, they are said to be

- A. immobile cells
- B. inactive cells
- C. flaccid cells
- D. dead cells

Answer:



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68. Larger molecules (bulk flow?) are taken into cell by

- A. osmosis
- B. pinocytosis
- C. phagocytosis
- D. both b and c

Answer:



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69. Root hair will absorb water when external solution is.....

- A. Viscous
- B. Isotonic
- C. Hypertonic
- D. Hypotonic

Answer:



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70. Absorption of water involving the activity of root is called.....

- A. Active absorption

B. Imbibition

C. Passive absorption

D. Diffusion

Answer:



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71. Uptake of water at the expenses of metabolic energy is known as.....

A. Endosmosis

B. Diffusion

C. Active absorption

D. Passive absorption

Answer:



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72. Which of the following is the major source of water for land plants?

- A. gravitational water
- B. Hygroscopic water
- C. Capillary water
- D. combined water

Answer:



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73. Maximum transpiration occurs through

- A. Stomata
- B. Cuticle
- C. Lenticels
- D. Bark

Answer:



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74. Water in plants rises through.....

- A. xylem
- B. phloem
- C. pith
- D. cortex

Answer:



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75. Guard cells are associated with.....

- A. Lenticels

B. Hydathodes

C. Stomata

D. Epiblema

Answer:



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76. Wooden doors swell up and get stuck up during rainy season due to

.....

A. Endosmosis

B. Exosmosis

C. Imbibition

D. Capillarity

Answer:



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77. Opening and closing of stomata is due to the

- A. Hormonal changes in guard cell.
- B. Change in turgor pressure of guard cells.
- C. Gaseous exchange
- D. Respiration

Answer:



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78. Solution outside a cell has higher concentration than cell sap the solution is.....

- A. Isotonic
- B. Hypotonic
- C. Hypertonic

D. Acidic

Answer:



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79. Chlorosis results from the deficiency of

A. Sodium

B. Boron

C. Magnesium

D. Phosphorous

Answer:



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80. Critical elements are

A. N, P, K

B. Na, P and Ca

C. N, P, Mg

D. Mn, Fe and Cu

Answer:

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81. Which of the following is trace element ?

A. Mg

B. Nitrogen

C. Sulphur

D. Mn

Answer:

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82. Which of the following is a macronutrient?

A. Ca

B. Mn

C. Zn

D. Ni

Answer:



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83. Nitrogen is an important constituent of

A. Carbohydrates

B. Sugars

C. Proteins

D. Polyphosphates

Answer:



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84. What is water potential?



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85. Write two uses of water?



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86. Define : Ascent of Sap.



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87. Define diffusion.



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88. Explain the terms: Plasmolysis



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89. Explain the terms: Deplasmolysis



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90. Draw a stoma and label the parts.



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91. mention the 2 advantages of transpirationn.



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92. Why is transpiration called a necessary evil?



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93. Explain the process of stomatal transpiration.



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94. Explain the mechanism of cohesion theory.



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95. Describe the course of translocation of organic sap and its mechanisms.



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96. With the help of a diagram explain the two pathways of water across the root cells.



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97. What is transpiration? Describe the three types of transpiration.



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