

Class: XI
Subject: Biology
Topic: Transport in plants
No. of Questions: 25

- Q1. Define water potential?
- Q2. What are the factors affecting the rate of diffusion?
- Q3. What will happen to water potential when solutes are added?
- Q4. Write the significance of plasmolysis.”
- Q5. Which fractions of soil water are readily available to plants for absorption?
- Q6. Distinguish between active and passive absorption of water.
- Q7. Distinguish between transpiration and evaporation.
- Q8. Mention two ways of absorption of water in plants?
- Q9. What are the factors affecting water absorption?
- Q10. Define wall pressure?
- Q11. Write the importance of diffusion in plants.
- Q12. Name the pores through which guttation occur?
- Q13. What is the value of water potential of pure water at normal temperature and pressure?

- Q14. What is transmembrane pathway?
- Q15. Mention two factors that affect water potential.
- Q16. Mention two external factors, which affect transpiration.
- Q17. Define wilting.
- Q18. Mention any two uses of transpiration of plants.
- Q19. Which part of root is related with the absorption of water?
- Q20. What is wall pressure?
- Q21. Due to low atmospheric pressure, the rate of transpiration will
- (a) Increase
 - (b) Decrease rapidly
 - (c) Decrease slowly
 - (d) Remain unaffected
- Q22. Guard cells help in
- (a) Transpiration
 - (b) Protection against grazing
 - (c) Fighting against infection
 - (d) Guttation
- Q23. The transpiration is regulated by the movements of
- (a) Subsidiary cells of the leaves
 - (b) Guard cells of the stomata
 - (c) Mesophyll tissue cells
 - (d) Epidermal cells of the leaves

- Q24. Steroid hormones easily pass through the plasma membrane by simple diffusion because they
- (a) Enter through pores
 - (b) Contain carbon and hydrogen
 - (c) Are water soluble
 - (d) Are lipid soluble
- Q25. Living cells placed in isotonic solution (0.9% saline) retain their size and shape. This is based on the concept of
- (a) Facilitated diffusion
 - (b) Diffusion
 - (c) Osmosis
 - (d) Transpiration

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