



**INDIAN SCHOOL MUSCAT**  
**SENIOR SECTION**  
**DEPARTMENT OF BIOLOGY**  
**CLASS XI**  
**TRANSPORT IN PLANTS**  
**WORKSHEET-14**

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1. What is the value of water potential of pure water at atmospheric pressure? [1]
2. What is guttation? When does it normally occur? [1]
3. Mention one point of difference between diffusion and facilitated diffusion. [1]
4. Define imbibition. [1]
5. Mention two characteristics of membrane proteins. [2]
6. What is solute potential? How does it influence water potential? [2]
7. Minerals are transported actively into the root hair. Give reasons. [2]
8. Write significances of imbibition pressure. [2]
9. Differentiate between Turgid cells and flaccid cells. Bring out the advantages of turgidity to plant cells. [3]
10. What happens when a pressure greater than the atmospheric pressure is applied to pure water or a solution. [3]
11. What are uniport, symport and antiport? [3]
12. Explain the cohesion-tension theory of ascent of sap in tall trees. [3]
13. Give an account of pressure flow hypothesis of translocation of sugars in plants. [5]
14. Describe active absorption of water through osmotic mechanisms. [5]
15. With the help of a table, compare diffusion, facilitated diffusion and active transport. [5]