



BIOLOGY

BOOKS - VIKRAM PUBLICATION (ANDHRA PUBLICATION)

TRANSPORT IN PLANTS

Very Short Answer Questions

1. What are porins? What role do they play in diffusion?



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2. The water potential of pure water is:



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3. Differentiate osmosis from diffusion.



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4. What are apoplast and symplast ?



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5. How does guttation differ from transpiration ?



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6. Discuss the factors responsible for ascent of xylem sap in plants.



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7. With reference to transportation of food within a plant cells, what are the sources and sink ?



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8. Does transpiration occurs at night ? Give an example.



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9. How does opening and closing of stomata take place?



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10. The C_4 plants are Photosynthetically more efficient than C_3 plants because



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11. What is meant by transport saturation how does it influence facilitated diffusion.



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12. How does opening and closing of stomata take place?



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13. Compare imbibing capacities of pea and wheat seeds.



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Short Answer Questions

1. Briefly describe water potential. What are the factors affecting it?



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2. Facilitated diffusion involve



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3. What is meant by plasmolysis ? How is it practically useful to us ?



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4. Ascent of sap in tall trees is helped by



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5. Explain pressure flow hypothesis of translocation of sugars in plants.



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6. Transpiration is necessary evil. Explain?



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7. During photosynthesis





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8. How does opening and closing of stomata take place?



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Important Question

1. What are porins? What role do they play in diffusion?



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2. Discuss the factors responsible for ascent of xylem sap in plants.



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3. Does transpiration occurs at night ? Give an example.



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4. How does opening and closing of stomata take place?



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5. Explain why pure water has the maximum water potential.



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6. Ascent of sap in tall trees is helped by



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7. Explain pressure flow hypothesis of translocation of sugars in plants.



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Exercises

1. Differentiate uphill and downhill transport.



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2. Facilitated diffusion involve



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3. What happens when two solutions of different concentrations are separated by an egg membrane ? State the reason.



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4. What role does root pressure play in water movement in plants?



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5. Why pinus seeds fail to germinate in the absence of mycorrhizae ?



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6. Why do stomata close under water stress conditions ?



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7. How are stomata distributed in a typical monocot plant ?



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8. How scientists prove that the food is transported through the phloem?



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9. What essential role does the root endodermis play during mineral absorption in plants?



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10. Actively growing plant tissues have a water content of



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