1. What is osmosis?

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1. What is a selectively permeable (semi-permeable) membrane?

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1. Describe how you carried out the experiment to demonstrate osmosis.

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1. Water enters the outermost cells of the root by osmosis. What does this tell you about the cell sap of these outermost cells?

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1. Osmosis has been described as a special case of diffusion. Explain why.

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1. Describe an investigation that you carried out to demonstrate osmosis.

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1. Water enters the roots of plants by osmosis. Explain what is meant by osmosis.

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1. Describe how you demonstrated osmosis as part of your practical activities.

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1. Define the term osmosis.

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1. Give an example of osmosis in plants.

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1. In relation to membranes in cells, explain what is meant by selective permeability.

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1. Give two locations in a cell at which there is a selectively permeable membrane.

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1. What is diffusion?

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1. In the case of a named molecule, give a precise location at which it diffuses in the human body.

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1. Explain the biological basis for the use of high sugar or high salt concentrations in the preservation of food.

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1. Name a substance found in a plant cell vacuole.

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1. The cell membrane is described as being selectively permeable. What does this mean?

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1. Why is diffusion alternatively known as *passive transport*?

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1. Osmosis may be described as “a special case of diffusion”. Explain why.

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1. Describe, with the aid of a labelled diagram, how you demonstrated osmosis in the laboratory.

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1. What did you use as the selectively permeable membrane in your investigation of osmosis?

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1. Homeostasis often requires an organism to exchange materials between different tissues, or between itself and the external environment by diffusion, osmosis, and active transport. Explain each of the underlined terms.

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1. True or False. Plant cell walls are fully permeable.

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1. Water for photosynthesis enters the roots of plants by osmosis. What is meant by osmosis?

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1. In relation to structures such as the cell membrane, explain the term selective permeability.

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1. Suggest an advantage to the cell of having a selectively permeable membrane.

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1. Name two substances that enter a human muscle cell by diffusion.

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1. Explain the term turgor.

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1. Give a feature of a plant cell that allows it to remain turgid for long periods.

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1. Suggest a way in which turgor is of value to plants.

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1. When demonstrating osmosis: 1. For what purpose did you use Visking tubing, potato tissue or some similar material? 2. At the end of the demonstration, how did you conclude that osmosis had occurred?

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1. Which substance moves through cell membranes by osmosis?

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1. Name one other term used in biology to describe the movement of substances through cell membranes.

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1. Answer the following in relation to an activity you carried out to demonstrate osmosis. (i) Draw a labelled diagram of the apparatus you used in your demonstration. (ii) Suggest a control that you might use in this activity. (iii) State the result(s) of your investigation. (iv) Briefly explain the result(s) referred to in part (iii).

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1. Give one example of the use of osmosis in food preservation.

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1. Explain how plant cells remain turgid.

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1. The cell membrane is said to be selectively permeable or semi-permeable. What does this mean?

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