

7 Define 'osmosis'.

8 What is 'osmotic pressure'? Draw a diagram to illustrate your explanation.

9 A red blood cell is placed in a solution of 0.9% salt (an isotonic solution). It neither swells nor shrinks when it is in this solution. Using your knowledge of the process of osmosis, explain why the cell does not shrink and why it does not swell. Draw a diagram to illustrate what is happening on either side of the cell's membrane.

10 Explain what would happen if the red blood cell were placed in a 1.5% solution of salt (a solution that is hypertonic to the cell). Draw a diagram to illustrate your answer.

11 Explain what would happen if the red blood cell were placed in distilled water; in other words, a 0% solution of salt (a solution that is hypotonic to the cell). Draw a diagram to illustrate your answer.

12 Describe two differences between active transport and facilitated transport.

13 Explain how endocytosis is different from exocytosis. Draw a diagram to illustrate the difference.