

4 Cell communication and feedback – Part 1 —Answers

Answers

Work through these after you have tried the questions yourself.

2.1 a ligand is a signal molecule released by one cell; a receptor is a protein on the target cell that the ligand binds to.

2.2 reception, transduction, and response.

2.3 if the temperature rises, the body responds to cool down (e.g. sweating); if it falls, it responds to warm up (e.g. shivering) –always reversing the change back toward the set point.

2.4 negative feedback reverses a change to restore normal; positive feedback amplifies a change to push it further.

2.5 childbirth contractions (or blood clotting). \