

14 How is the Michaelis–Menten constant (K_m) used?

- A** to determine the number of collisions between the enzyme and substrate
- B** to compare the affinity of enzymes for their substrates
- C** to find the maximum velocity of an enzyme (V_{max})
- D** to find the optimum rate of reaction

16 Which statements are correct for a non-competitive inhibitor of enzyme action?

- 1 Increasing the concentration of the enzyme's substrate will reduce its effect.
- 2 It reduces the activation energy required for a reaction to take place.
- 3 It reduces the maximum rate of reaction.

- A** 1 and 3 **B** 1 only **C** 2 and 3 **D** 3 only

17 The rate of enzyme-catalysed reactions in human cells is regulated.

What may be involved in this regulation?

- 1 a change in enzyme concentration
- 2 a change in substrate concentration
- 3 inhibition by the final product of the reaction

- A** 1, 2 and 3 **B** 1 and 2 only **C** 1 and 3 only **D** 2 and 3 only