6   A car of mass 1200 kg is moving at 20 m s^{-1} up a slope which is inclined at an angle of 30°. The frictional force opposing the motion is 900 N. If the car accelerates at

3.0 m s^{-2} when it is moving at this speed, what is the power delivered by the engine at this instant?

A 140 kW   **B** 170 kW   **C** 210 kW   **D** 250 kW