

**15** A man attached to a rubber cord makes a bungee jump.

At the bottom of his fall, he oscillates vertically up and down.

Which is the correct description of the changes in energy as the cord stretches to its maximum extension during the fall?

- A The man gains kinetic energy and gravitational potential energy and the cord loses elastic potential energy.
- B The man loses kinetic energy and gains gravitational potential energy and there is no change in the elastic potential energy in the cord.
- C The man loses kinetic energy and gains gravitational potential energy and the cord gains elastic potential energy.
- D The man loses kinetic energy and gravitational potential energy and the cord gains elastic potential energy.

**16** A car of mass 1000 kg accelerates uniformly up a road inclined at  $10^\circ$  to the horizontal. Starting