

15 A ball is thrown vertically upwards.

Neglecting air resistance, which statement is correct?

- A** The kinetic energy of the ball is greatest at the greatest height attained.
- B** By the principle of conservation of energy, the total energy of the ball is constant throughout its motion.
- C** By the principle of conservation of momentum, the momentum of the ball is constant throughout its motion.
- D** The potential energy of the ball increases uniformly with time during its ascent.

16 A bow of mass 400 g shoots an arrow of mass 120 g vertically upwards. The potential energy