

## QUESTION 1: MOTION, POWER AND ENERGY

1.1 State the Law of Conservation of Energy. (1)

1.2 An object with a mass of 5 kg is lifted to a height of 20 m above ground level. Calculate the potential energy after it has fallen 12 m. (2)

1.3 FIGURE 1 shows a car accelerating from rest at point A, at a uniform acceleration of  $1,5 \text{ m/s}^2$  for 20 seconds to point B. The car then moves from point B at a constant velocity to point C. The car then moves from point C at a uniform retardation until it comes to rest at point A.

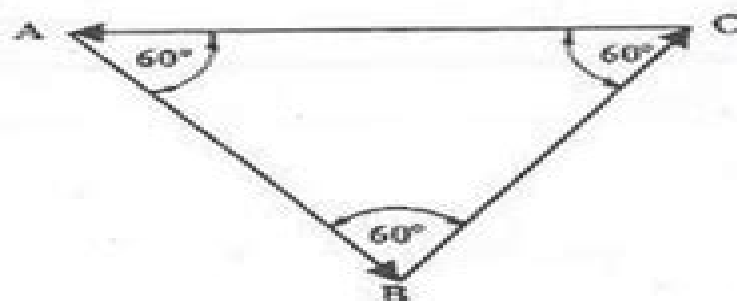


FIGURE 1

Calculate the following:

- 1.3.1 The displacement (1)  
1.3.2 The total distance travelled (3)  
1.3.3 The constant velocity in km/h (3)

1.4 State the Law of Conservation of Momentum. (2)

1.5 A steel ball with a mass of 1 kg travelling to the right along a track at a velocity of 4 m/s, collides elastically with another stationary steel ball with a mass of 2 kg.

Calculate the following:

- 1.5.1 The kinetic energy of the system before the collision (2)  
1.5.2 The total momentum of the system before the collision (2)

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**Tao Wei**



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