

- 3 (a) The velocity of an object of mass m increases from u to v .

State, in terms of m , u and v , the change of momentum of the object.

$mv - mu$ [1]

- (b) In a game of tennis, a player hits a stationary ball with his racquet.

- (i) The racquet is in contact with the ball for 6.0 ms. The average force on the ball during this time is 400 N.

Calculate the impulse on the tennis ball.

$$Ft = 400 \times 6 \div 1000 = 2.4 \text{ N s}$$

impulse = 2.4 N s [2]

- (ii) The mass of the ball is 0.056 kg.

Calculate the speed with which the ball leaves the racquet.

$$Ft = mv - mu$$

$$v = 2.4 \div 0.056 \approx 42.9 \text{ m/s}$$

speed = 42.9 m/s [2]

- (iii) State the energy transfer that takes place:

1. as the ball changes shape during the contact between the racquet and the ball

elastic energy $\rightarrow$ kinetic energy

2. as the ball leaves the racquet.

elastic energy $\rightarrow$ kinetic energy

[2]

[Total: 7]

Physics 97june 2013 Paper 4

Haim Abramovich



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