

QUESTION 1

- 1.1 A ✓✓
1.2 D ✓✓
1.3 C ✓✓
1.4 B ✓✓
1.5 C ✓✓
1.6 B ✓✓
1.7 C ✓✓

[14]

QUESTION 2

- 2.1 If a net force acts on a body the body accelerates in the direction of the net force. ✓✓
The acceleration is directly proportional to the net force and inversely proportional to the mass of the body. ✓✓

2.2



- ✓ (force)
✓ (any 2 correct)
✓ (any 2 correct) (12)

2.3 $F_N = mg \cos \theta$

$$= (2,000 \text{ kg})(9,8 \text{ m/s}^2) \cos 30^\circ$$

$$= 16,97 \text{ N} \quad (12)$$

2.4 $F_{\text{net}} = ma$

$$T + (F_N) + (F_g) = ma$$

$$(10) + (20) + (9,8 \text{ m/s}^2) = 2a$$

$$39,8 = 2a$$

$$F_{\text{net}} = ma$$

$$F_{\text{net}} + (F_N) + (F_g) + (T) = ma$$

$$39,8 + 20 + (10) + (9,8 \text{ m/s}^2) - T = 4a$$

$$59,6 - T = 4a$$

$$2T - 39,8 = 39,8 - T \quad \text{✓✓ (Manipulation and equating)}$$

$$T = 79,6 \text{ N} \quad (16)$$

[16]

QUESTION 3

- 3.1 In an isolated system the total linear momentum remains constant in both magnitude and direction. ✓✓ (12)

3.2 sum of p before = sum of p after

$$m_1 v_1 + m_2 v_2 = m_1 v_1' + m_2 v_2'$$

$$(140 \text{ kg}) + (250 \text{ kg}) = (140 \text{ kg}) + (250 \text{ kg})$$

$$v_2 = 5,71 \text{ m/s} \quad (16)$$

3.3 $\Delta p = \Delta p$

$$\Delta p = m_1 v_1' - m_1 v_1$$

$$= (140 \text{ kg}) - (140 \text{ kg})$$

$$= 0 \text{ kg} \cdot \text{m/s} \quad \text{✓✓ (12)}$$

[16]

QUESTION 4

- 4.1 The work done by a conservative force is not path dependent. ✓✓ (12)
4.2 Force of gravity ✓✓ (12)
4.3 The net work done on an object is equal to its change in kinetic energy. ✓✓ (12)
The work done on an object by the net force is equal to its change in kinetic energy.

4.4 $W_{\text{net}} = \Delta K$

$$W_{\text{spring}} + W_{\text{grav}} = W_{\text{net}} = \Delta K = \frac{1}{2}mv^2 - \frac{1}{2}mv^2$$

$$277 \text{ J} + F_{\text{spring}} \Delta x = \frac{1}{2}(2000 \text{ kg})(10)^2 - \frac{1}{2}(2000 \text{ kg})(0)$$

$$277 \text{ J} + (2000 \text{ N})(1,0 \text{ m}) + (2000 \text{ kg})(9,8 \text{ m/s}^2)(1,0 \text{ m}) = 25000 \text{ J} - 0 \text{ J}$$

$$277 \text{ J} + 2000 \text{ J} + 19600 \text{ J} = 25000 \text{ J}$$

$$\Delta x = 0,5 \text{ m} \quad (16)$$

4.5 $P = \frac{W}{t} = \frac{277 \text{ J}}{0,1 \text{ s}} = 2770 \text{ W} \quad (12)$

[16]

QUESTION 5

5.1



✓ (F_g smaller in length than F_weight) (12)

5.1.1 $v = u + at$ ✓ or $\Delta v = v_{\text{fin}} - \frac{1}{2}at^2$ ✓ or $v_{\text{fin}} = v_{\text{ini}} + \Delta v$ ✓

$$112,8 = 0 + a(2)$$

$$a = 56,4 \text{ m/s}^2 \quad (12)$$

5.1.2 $\Delta y = v_{\text{fin}} t + \frac{1}{2}at^2$ ✓

$$-225,6 = 112,8(2) + \frac{1}{2}(-56,4)(2)^2$$

$$4,500t^2 - 225,6(2) - 225,6 = 0$$

$$\Delta t = 24,87 \text{ s} \quad \text{✓}$$

$$\Delta v_{\text{new}} = 24,87 \text{ s} + 2 = 26,87 \text{ s} \quad \text{✓ (24 - for adding 2 s)} \quad (16)$$

5.2



- ✓ (area labelled correctly)
✓ (all v and dt - values correctly)
✓ (shape first 4 s)
✓ (shape 4 s to 26,87 s) (12)

[16]

QUESTION 6

6.1 The Doppler effect ✓✓ (12)

6.2 $\Delta f = \frac{v}{\lambda}$ The observed frequency is higher than the actual frequency. ✓✓ (12)

$$\Delta f = \frac{v}{\lambda} - \frac{v}{\lambda_0}$$

$$\Delta f = \frac{v}{\lambda} - \frac{v}{\lambda_0}$$

$$940 \text{ Hz} = \frac{340 \text{ m/s}}{\lambda} - \frac{340 \text{ m/s}}{0,344 \text{ m}}$$

$$940 \text{ Hz} = 940,3 \text{ Hz} - 940,3 \text{ Hz}$$

$$9,3 \text{ Hz} = 940,3 \text{ Hz}$$

$$v = 279,41 \text{ m/s} \quad \text{✓✓ (12)}$$

[12]

QUESTION 7

7.1 The electrostatic force between two charges is directly proportional to the product of the charges and inversely proportional to the squared distance between the charges. ✓✓ (12)

$$F = \frac{kq_1 q_2}{r^2}$$

$$= \frac{(9 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2)(2 \times 10^{-6} \text{ C})(3 \times 10^{-6} \text{ C})}{(0,1 \text{ m})^2}$$

$$= 1,8 \times 10^{-1} \text{ N} \quad \text{✓✓ (12)}$$

$$7.2.1 F = \frac{kq_1 q_2}{r^2}$$

$$F = \frac{(9 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2)(2 \times 10^{-6} \text{ C})(3 \times 10^{-6} \text{ C})}{(0,1 \text{ m})^2}$$

$$= 1,8 \times 10^{-1} \text{ N} \quad \text{✓✓ (12)}$$

$$7.2.2 F = \frac{kq_1 q_2}{r^2}$$

$$= 1,8 \times 10^{-1} \text{ N} \quad \text{✓✓ (12)}$$

$$7.2.3 F_{\text{net}} = 1,8 \times 10^{-1} \text{ N} + 1,8 \times 10^{-1} \text{ N}$$

$$F_{\text{net}} = 3,6 \times 10^{-1} \text{ N} \quad \text{✓✓ (12)}$$

[12]

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Ensheng Dong



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