

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) ✓✓

2.3 $F_N = mg \cos \theta$

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

$$= 16,97 \text{ N} \quad \text{✓✓}$$

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

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

$$(10) + (2,000)(9,8) \cos 30^\circ = 2a$$

$$a = 24,6 \text{ m/s}^2$$

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

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

$$24,6 - 20 - (10)(9,8) \cos 30^\circ - T = 4a$$

$$24,6 - T = 4a$$

$$2T - 24,6 = 24,6 - T \quad \text{✓✓ (Manipulation and equating)}$$

$$T = 24,6 \text{ N} \quad \text{✓✓}$$

(4)

[14]

QUESTION 3

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

3.2 sum of p before = sum of p after

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

$$(400)(10) + (250)(0) = (400 + 250)(4,5)$$

$$v_2 = 5,76 \text{ m/s} \quad \text{✓✓}$$

3.3 $\Delta p = \Delta p$

$$\Delta p = \Delta p - \Delta p$$

$$= (140)(4,5) - (150)(0)$$

$$= 630 \text{ N} \cdot \text{s} \quad \text{✓✓}$$

[4]

QUESTION 4

4.1 The work done by a conservative force is not path dependent. ✓✓

4.2 Force of gravity ✓✓

4.3 The net work done on an object is equal to its change in kinetic energy. ✓✓

The work done on an object by the net force is equal to its change in kinetic energy.

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

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

$$277,640 + F_{\text{spring}} \cos 30^\circ + F_{\text{grav}} \cos 30^\circ = \frac{1}{2}(3000)(10)^2 - \frac{1}{2}(3000)(0)^2$$

$$277,640 + (3000)(9,8) \cos 30^\circ + F_{\text{spring}} \cos 30^\circ = 15000(10) - 0$$

$$277,640 + 24750(0,87) + 2545,5a = 149000$$

$$\Delta a = 0 \text{ m/s}^2 \quad \text{✓✓}$$

4.5 $F = \frac{\Delta p}{\Delta t} = \frac{277,640}{0,12} = 2,313,667 \text{ N} \quad \text{✓✓}$

[14]

QUESTION 5

5.1



✓ (F_g smaller in length than F_weight) ✓✓

5.1.1 $a = a_0 + \Delta a$ or $\Delta a = a - \frac{1}{2}at^2$ or $at^2 = at + 2ay$

$$0,12,0 = 0 + a(4)$$

$$a = 3,0 \text{ m/s}^2 \quad \text{✓✓}$$

5.1.2 $\Delta y = v_0 t + \frac{1}{2}at^2$

$$-0,12,0 = 11,2(4a) + \frac{1}{2}(-9,8)(4)^2$$

$$4,48a - 112,000 - 225,6 = 0$$

$$\Delta a = 24,87 \text{ m/s}^2$$

$$\Delta a_{\text{net}} = 24,87 + a = 28,87 \text{ m/s}^2 \quad \text{✓✓ (for adding + a)} \quad \text{✓✓}$$

5.2



- ✓ (area labelled correctly)
✓ (all v and dt values correctly)
✓ (shape first 4 s)
✓ (shape 4 s to 28,87 s) ✓✓

[14]

QUESTION 6

6.1 The Doppler effect ✓✓

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

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

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

$$940 = \frac{340}{\lambda} (944,3)$$

$$940 = 340,3v - 1035,45$$

$$9,3v = 1975,45$$

$$v = 212,73 \text{ m/s} \quad \text{✓✓}$$

[4]

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. ✓✓

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

$$= \frac{(9 \times 10^9)(2,0)(2,0)(10^{-6})}{(0,02)^2}$$

$$= 9,0 \times 10^4 \text{ N} \quad \text{✓✓}$$

7.1.1 $F = \frac{kq_1 q_2}{r^2}$

$$F = \frac{(9 \times 10^9)(2,0)(2,0)(10^{-6})}{(0,02)^2}$$

$$= 9,0 \times 10^4 \text{ N} \quad \text{✓✓}$$

7.1.2 $F = \frac{kq_1 q_2}{r^2}$

$$= 9,0 \times 10^4 \text{ N} \quad \text{✓✓}$$

7.1.3 $F_{\text{net}} = 9,0 \times 10^4 + 9,0 \times 10^4$

$$F_{\text{net}} = 18,0 \times 10^4 \text{ N} \quad \text{✓✓}$$

✓

[14]

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