

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)
✓ (either 2 correct) (2)

2.3 $F_g = mg$ ✓

$$= (0,0470 \text{ kg})(9,81 \text{ m/s}^2)$$

$$= 0,461 \text{ N} \quad (2)$$

2.4 $F_{\text{net}} = ma$ ✓

$$T + (4,2) + (0,46) = ma$$

$$(10) - (2)(9,81 \text{ m/s}^2) = 2a$$

$$a = 0,10 \text{ m/s}^2$$

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

$$F_{\text{net}} + (4,2) + (0,46) + (0,7) = ma$$

$$25,0 - 20 - (2)(9,81 \text{ m/s}^2) - T = 4a$$

$$25,0 - T = 4a$$

$$2T - 25,0 = 24,2 - T \quad \text{✓ (Manipulation and equating)}$$

$$T = 24,6 \text{ N} \quad \text{✓}$$

(4)

[14]

QUESTION 3

- 3.1 In an isolated system the total linear momentum remains constant in both magnitude and direction. ✓✓ (2)

3.2 sum of p before = sum of p after

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

$$(40)(10) + (250)(0) = (40)(v) + (250)(4,5) \quad \text{✓}$$

$$v = 5,76 \text{ m/s} \quad \text{✓ (4)}$$

3.3 $\Delta p = \Delta p \quad \text{✓}$

$$\Delta p = \Delta p_1 - \Delta p_2$$

$$= (140)(4,5) - (150)(0) \quad \text{✓}$$

$$= 630 \text{ N} \cdot \text{s} \quad \text{✓ (2)}$$

[6]

QUESTION 4

4.1 The work done by a conservative force is not path dependent. ✓✓ (2)

4.2 Force of gravity ✓✓ (2)

4.3 The net work done on an object is equal to its change in kinetic energy. ✓✓ (2)

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

4.4 $W_{\text{net}} = \Delta K$ ✓

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

$$277 \text{ J} + 0 + F_{\text{spring}} \Delta x_{\text{spring}} + F_{\text{net}} \Delta x_{\text{net}} = \frac{1}{2}(3000)(10)^2 - \frac{1}{2}(3000)(0)^2 \quad \text{✓}$$

$$277 \text{ J} + 0 + (2000)(1,0) + \sin(30^\circ)(\Delta x) \cos(180^\circ) + 2545(\Delta x) \cos(180^\circ) = 15000 \text{ J} \quad \text{✓}$$

$$277 \text{ J} + 0 - 14700 \Delta x - 2545 \Delta x = 15000$$

$$\Delta x = 0,5 \text{ m} \quad \text{✓ (2)}$$

4.5 $F = \frac{\Delta p}{\Delta t} \quad \text{✓}$

$$= \frac{20000 \text{ kg} \cdot \text{m/s}}{0,1 \text{ s}} = 200000 \text{ N} \quad \text{✓ (2)}$$

[14]

QUESTION 5

5.1



✓ (F_g smaller in length than F_{spring}) (2)

$$512,8 = 0 + a(2) \quad \text{✓} \quad \text{or} \quad \Delta v = v_{\text{fin}} + \frac{1}{2}at^2 \quad \text{or} \quad v_{\text{fin}} = v_{\text{ini}} + at$$

$$512,8 = 0 + a(2) \quad \text{✓}$$

$$a = 256,4 \text{ m/s}^2 \quad \text{✓ (2)}$$

$$512,8 = v_{\text{fin}} + \frac{1}{2}at^2 \quad \text{✓}$$

$$-225,6 = 112,8a + \frac{1}{2}(256,4)a(2) \quad \text{✓}$$

$$4,56a^2 + 225,6a - 225,6 = 0$$

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

$$\Delta v_{\text{net}} = 24,87 \text{ s} + 0 = 24,87 \text{ s} \quad \text{✓ (4 - for adding + 0)} \quad (4)$$

5.2



- ✓ (area labelled correctly)
✓ (all v and dt values correctly)
✓ (shape first 4 s)
✓ (shape 4 s to 24,87 s) (3)

[14]

QUESTION 6

6.1 The Doppler effect ✓✓ (2)

6.2 $\Delta f = \frac{v}{\lambda}$ The observed frequency is higher than the actual frequency. ✓✓ (2)

$$\Delta f = \frac{v}{\lambda} \quad \text{✓}$$

$$\Delta f = \frac{v}{\lambda} \quad \text{✓}$$

$$940 \quad \text{✓} = \frac{340}{\lambda} \quad 944,3 \quad \text{✓}$$

$$940 = 944,3 \lambda \quad \text{✓}$$

$$\lambda = 0,0004 \text{ m} \quad \text{✓ (4)}$$

[6]

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. ✓✓ (2)

$$F = \frac{kq_1q_2}{r^2} \quad \text{✓}$$

$$= \frac{(9 \times 10^9)(2,0 \times 10^{-6})(3,0 \times 10^{-6})}{(0,02)^2}$$

$$= 1,35 \times 10^{-2} \text{ N} \quad \text{✓ (4)} \quad (4)$$

$$7.2 F = \frac{kq_1q_2}{r^2} \quad \text{✓}$$

$$F = \frac{(9 \times 10^9)(2,0 \times 10^{-6})(3,0 \times 10^{-6})}{r^2}$$

$$= 45000 \text{ N/C} \quad \text{✓ (4) (2)}$$

$$7.3 F = \frac{kq_1q_2}{r^2} \quad \text{✓}$$

$$= 45000 \text{ N/C} \quad \text{✓ (4) (2)}$$

$$7.4 F_{\text{net}} = 45000 \text{ N} + 45000 \text{ N} \quad \text{✓}$$

$$F_{\text{net}} = 45000 \text{ N/C} \quad \text{✓ (4) (2)}$$

[10]

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RD Boyd



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web the aim of this paper is to describe the nature of these types of teachers responses in order establish possible profiles of assessment practices in elementary and secondary

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web comments are just a list of quotes or fragments of sentences and have not been synthesized into a well written paragraph examples to avoid as the only narrative

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web sep 9 2022 a sample of positive comments is a copy of valuable comments to render to any teacher that accurately deserves it and to show our utmost love for the work well