

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)

2.3 $F_g = mg$ ✓

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

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

2.4 $F_{\text{net}} = ma$ ✓

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

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

$$a = 0,1 \text{ m/s}^2$$

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

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

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

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

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

$$T = 24,6 \text{ N} \quad \text{✓}$$

(4)

[10]

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

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

$$(40)(10) + (30)(0) = (40)(4) + (30)(v_2')$$

$$v_2 = 5,33 \text{ m/s} \quad \text{✓ (4)}$$

3.3 $\Delta p = \Delta p$ ✓

$$\Delta p = p_{\text{final}} - p_{\text{initial}}$$

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

$$= 630 \text{ kg} \cdot \text{m/s} \quad \text{✓ (2)}$$

[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 $W_{\text{net}} = \Delta K$ ✓

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

$$277 \text{ J} + W_{\text{spring}} + W_{\text{fr}} = \frac{1}{2}(3000)(10)^2 - \frac{1}{2}(3000)(0)^2$$

$$277 \text{ J} + W_{\text{spring}} + (3000)(9,81 \text{ m/s}^2)(0,5) = 15000 \text{ J} + 0 \text{ J}$$

$$277 \text{ J} + W_{\text{spring}} - 14700 \text{ J} = 15000 \text{ J}$$

$$W_{\text{spring}} = 16923 \text{ J} \quad (2)$$

4.5 $P = \frac{W}{t} = \frac{16923 \text{ J}}{10 \text{ s}} = 1692,3 \text{ W} \quad \text{✓ (2)}$

[14]

QUESTION 5

5.1



✓ (It is smaller in length than the length of the line segment AB) (2)

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

$$0,12,0 = 0 + a(2)$$

$$a = 0,6 \text{ m/s}^2 \quad \text{✓ (2)}$$

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

$$-0,12,0 = 0 + \frac{1}{2}(0,6)t^2$$

$$-0,12,0 = 0,3t^2$$

$$t = 0,63 \text{ s} \quad \text{✓}$$

$$d_{\text{stone}} = 0,63 \text{ s} + 0 = 0,63 \text{ s} \quad \text{✓ (4) - for adding + 0} \quad (4)$$

5.2



- ✓ (area labelled correctly)
✓ (all v and dt values correctly)
✓ (shape first 4 s)
✓ (shape 4 s to 20,87 s) (2)

[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)

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

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

$$940 \text{ Hz} = \frac{340 \text{ m/s}}{\lambda} \Delta \lambda$$

$$940 \text{ Hz} = \frac{340 \text{ m/s}}{\lambda} \Delta \lambda$$

$$940 \text{ Hz} = \frac{340 \text{ m/s}}{\lambda} \Delta \lambda$$

$$v = 329,41 \text{ m/s} \quad \text{✓ (4)}$$

[7]

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)

$$F = \frac{kq_1q_2}{r^2}$$

$$= \frac{(9 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2)(2 \times 10^{-6} \text{ C})(3 \times 10^{-6} \text{ C})}{(0,02 \text{ m})^2}$$

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

7.1.1 $F = \frac{kq_1q_2}{r^2}$ ✓

$$F = \frac{kq_1q_2}{r^2} = \frac{(9 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2)(2 \times 10^{-6} \text{ C})(3 \times 10^{-6} \text{ C})}{(0,02 \text{ m})^2}$$

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

7.1.2 $F = \frac{kq_1q_2}{r^2} = \frac{(9 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2)(2 \times 10^{-6} \text{ C})(3 \times 10^{-6} \text{ C})}{(0,02 \text{ m})^2}$ ✓

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

7.1.3 $F_{\text{net}} = 40 \text{ 000 N} + 40 \text{ 000 N}$ ✓

$$F_{\text{net}} = 80 \text{ 000 N} \quad \text{✓ (4) (-)}$$

✓

[10]

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 - The Rise of Digital Reading Turbo Physics Grade 12
 - Advantages of eBooks Over Traditional Books
2. Identifying Turbo Physics Grade 12
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Turbo Physics Grade 12
 - User-Friendly Interface
4. Exploring eBook Recommendations from Turbo Physics Grade 12
 - Personalized Recommendations

- Turbo Physics Grade 12 User Reviews and Ratings
- Turbo Physics Grade 12 and Bestseller Lists
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 - Turbo Physics Grade 12 Budget-Friendly Options
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 - Turbo Physics Grade 12 Enhanced eBook Features
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 - Interactive Elements Turbo Physics Grade 12
- 8. Staying Engaged with Turbo Physics Grade 12
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Turbo Physics Grade 12
- 9. Balancing eBooks and Physical Books Turbo Physics Grade 12
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Turbo Physics Grade 12
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Turbo Physics Grade 12
 - Setting Reading Goals Turbo Physics Grade 12
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Turbo Physics Grade 12
 - Fact-Checking eBook Content of Turbo Physics Grade 12

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- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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