

2. (a) Total K.E. of John and his car
 $= \frac{1}{2}mv^2$
 $= \frac{1}{2} \times 1400 \text{ kg} \times (27.8 \text{ m s}^{-1})^2$
 $= 540\,210$
 $= 540 \text{ kJ}$

1A

Average output power of the car

$$= \frac{\text{energy}}{\text{time}}$$

$$= \frac{540\,210 \text{ J}}{9.3 \text{ s}}$$

$$= 58\,087$$

$$= 58.1 \text{ kW}$$

1M

1A

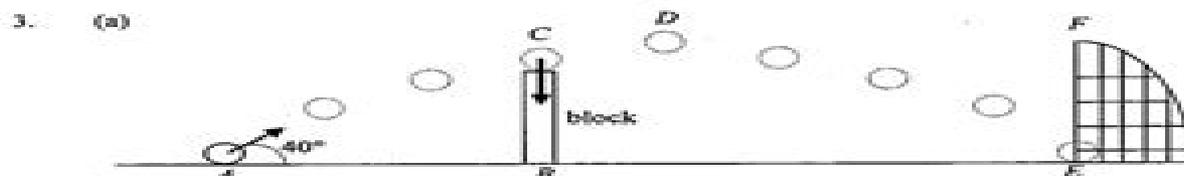
2

(b) As the car is accelerating up an inclined road, the potential energy of the car is increasing. As the power of the car remains unchanged, it takes a longer time for the car to accelerate up an inclined road.

1A

1A

2



1A

1

(b) $y = u \sin \theta t - \frac{1}{2}gt^2$
 For $y = 0$, $t = \frac{2u \sin \theta}{g}$ (1)
 $x = u \cos \theta t$ (2)
 Sub. (1) into (2) : $R = u \cos \theta \left(\frac{2u \sin \theta}{g} \right)$
 $= \frac{u^2 \sin 2\theta}{g}$
 For $R' = R$, $\sin (180^\circ - 2\theta') = \sin (2 \times 40^\circ)$
 $2\theta' = 100^\circ$
 $\theta' = 50^\circ$

Alternatively :
 $v = u + at$
 For $v_y = -u \sin \theta$ at E
 $-u \sin \theta = u \sin \theta - gt$
 $t = \frac{2u \sin \theta}{g}$
 And $R = u \cos \theta t$

1M

1M

1M

(c) By conservation of energy,
 $\frac{1}{2}m(10)^2 = \frac{1}{2}mv_c^2 + m(9.81)(1.6)$
 $v_c^2 = 68.6$
 $v_c = 8.28 \text{ m s}^{-1}$

Alternatively :
 $v^2 = u^2 + 2as$
 $v_y^2 = (10 \sin 40^\circ)^2 - 2(9.81)(1.6)$
 $= 9.93 \text{ m}^2 \text{ s}^{-2}$
 $v_y = 3.15 \text{ m s}^{-1}$
 $\& v_x = 10 \cos 40^\circ = 7.66 \text{ m s}^{-1}$

1A

4

1M

1A

2

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Michael Nelkon



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1. Understanding the eBook 2012 Dse Suggested Answer Physics
 - The Rise of Digital Reading 2012 Dse Suggested Answer Physics
 - Advantages of eBooks Over Traditional Books
2. Identifying 2012 Dse Suggested Answer Physics
 - 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 2012 Dse Suggested Answer Physics
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2012 Dse Suggested Answer Physics
 - Personalized Recommendations
 - 2012 Dse Suggested Answer Physics User Reviews and Ratings
 - 2012 Dse Suggested Answer Physics and Bestseller Lists
5. Accessing 2012 Dse Suggested Answer Physics Free and Paid eBooks

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 - 2012 Dse Suggested Answer Physics eBook Subscription Services
 - 2012 Dse Suggested Answer Physics Budget-Friendly Options
6. Navigating 2012 Dse Suggested Answer Physics eBook Formats
- ePub, PDF, MOBI, and More
 - 2012 Dse Suggested Answer Physics Compatibility with Devices
 - 2012 Dse Suggested Answer Physics Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of 2012 Dse Suggested Answer Physics
 - Highlighting and Note-Taking 2012 Dse Suggested Answer Physics
 - Interactive Elements 2012 Dse Suggested Answer Physics
8. Staying Engaged with 2012 Dse Suggested Answer Physics
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2012 Dse Suggested Answer Physics
9. Balancing eBooks and Physical Books 2012 Dse Suggested Answer Physics
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2012 Dse Suggested Answer Physics
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 2012 Dse Suggested Answer Physics
- Setting Reading Goals 2012 Dse Suggested Answer Physics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 2012 Dse Suggested Answer Physics
- Fact-Checking eBook Content of 2012 Dse Suggested Answer Physics
 - Distinguishing Credible Sources
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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