

PHYSICAL SCIENCES P1 REVISION DOCUMENT

NEWTON'S LAWS

State the following laws:

1. Newton's second law of motion
2. Newton's law of universal gravitation

QUESTION 2



A block of mass 1 kg is connected to another block of mass 4 kg by a light inextensible string. The 1 kg block is on the inclined plane, by means of a constant 40 N force parallel to the plane as shown in the diagram below. The magnitude of the kinetic frictional force between the surface and the 4 kg block is 10 N. The coefficient of kinetic friction between the 1 kg block and the surface is 0,20.

- 2.1 State Newton's third law of motion in words. (2)
- 2.2 Draw a labelled free-body diagram showing ALL the forces acting on the 1 kg block as it moves up the incline. (5)
- 2.3 Calculate the magnitude of the:
 - 2.3.1 Kinetic frictional force between the 1 kg block and the surface (2)
 - 2.3.2 Tension in the string connecting the two blocks (5)

[14]

QUESTION 15

Block P, of mass 2 kg, is connected to block Q, of mass 3 kg, by a light inextensible string. Both blocks are on a plane inclined at an angle of 30° to the horizontal. Block Q is pulled by a constant force of 40 N at an angle of 25° to the incline.



Block P moves on a rough section, AB, of the incline, while block Q moves on a frictionless section, BC, of the incline. See diagram.

An average constant frictional force of 2,5 N acts on block P as it moves from A to B up the incline.

- 15.1 State Newton's Second Law in words. (2)
- 15.2 Draw a labelled free-body diagram for block P. (4)
- 15.3 Calculate the magnitude of the acceleration of block P while block P is moving on section AB. (8)

- 15.4 If block P has now passed point B, how will its acceleration compare to that calculated in QUESTION 15.3? Choose from: GREATER THAN, SMALLER THAN, or EQUAL TO. Give a reason for the answer. (2)

[14]

June 2013 Physics 97paper 12 Answers

Lei Huang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

June 2013 Physics 97paper 12 Answers:

June 2013 Physics 97paper 12 Answers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**June 2013 Physics 97paper 12 Answers**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents June 2013 Physics 97paper 12 Answers

1. Understanding the eBook June 2013 Physics 97paper 12 Answers
 - The Rise of Digital Reading June 2013 Physics 97paper 12 Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying June 2013 Physics 97paper 12 Answers
 - 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 eBook June 2013 Physics 97paper 12 Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from June 2013 Physics 97paper 12 Answers
 - Personalized Recommendations
 - June 2013 Physics 97paper 12 Answers User Reviews and Ratings

- June 2013 Physics 97paper 12 Answers and Bestseller Lists
- 5. Accessing June 2013 Physics 97paper 12 Answers Free and Paid eBooks
 - June 2013 Physics 97paper 12 Answers Public Domain eBooks
 - June 2013 Physics 97paper 12 Answers eBook Subscription Services
 - June 2013 Physics 97paper 12 Answers Budget-Friendly Options
- 6. Navigating June 2013 Physics 97paper 12 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - June 2013 Physics 97paper 12 Answers Compatibility with Devices
 - June 2013 Physics 97paper 12 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of June 2013 Physics 97paper 12 Answers
 - Highlighting and Note-Taking June 2013 Physics 97paper 12 Answers
 - Interactive Elements June 2013 Physics 97paper 12 Answers
- 8. Staying Engaged with June 2013 Physics 97paper 12 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers June 2013 Physics 97paper 12 Answers
- 9. Balancing eBooks and Physical Books June 2013 Physics 97paper 12 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection June 2013 Physics 97paper 12 Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine June 2013 Physics 97paper 12 Answers
 - Setting Reading Goals June 2013 Physics 97paper 12 Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of June 2013 Physics 97paper 12 Answers
 - Fact-Checking eBook Content of June 2013 Physics 97paper 12 Answers
 - 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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