

QUESTION 1: MOTION, ENERGY AND POWER

1.1 State the law of conservation of energy in words. (2)

1.2 A motorcar with a mass of 0,9 ton is parked on an incline AB of 1 : 20. The motorcar departs from rest at A and within 12 seconds reaches a speed of 144 km/h.

If all frictional losses are neglected, calculate:



1.2.1 The acceleration of the car from A to B

1.2.2 The pulling force of the car's engine

1.2.3 The length of the gradient

1.2.4 The power of the car's engine

1.2.5 The potential energy at B (5 x 2) (10)

1.3 A Gautrain experiences a tractive resistance of 280 N per 1 000 kg when it moves.

If the Gautrain exerts a force of 80 kN when it has a mass of 40 000 kg, calculate the acceleration of the Gautrain. (4)

[16]

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Table of Contents N3 Engineering Science Paper 4 Memoranda 2013

1. Understanding the eBook N3 Engineering Science Paper 4 Memoranda 2013
 - The Rise of Digital Reading N3 Engineering Science Paper 4 Memoranda 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying N3 Engineering Science Paper 4 Memoranda 2013
 - 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 N3 Engineering Science Paper 4 Memoranda 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from N3 Engineering Science Paper 4 Memoranda 2013
 - Personalized Recommendations
 - N3 Engineering Science Paper 4 Memoranda 2013 User Reviews and Ratings
 - N3 Engineering Science Paper 4 Memoranda 2013 and Bestseller Lists

5. Accessing N3 Engineering Science Paper 4 Memoranda 2013 Free and Paid eBooks
 - N3 Engineering Science Paper 4 Memoranda 2013 Public Domain eBooks
 - N3 Engineering Science Paper 4 Memoranda 2013 eBook Subscription Services
 - N3 Engineering Science Paper 4 Memoranda 2013 Budget-Friendly Options
6. Navigating N3 Engineering Science Paper 4 Memoranda 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - N3 Engineering Science Paper 4 Memoranda 2013 Compatibility with Devices
 - N3 Engineering Science Paper 4 Memoranda 2013 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of N3 Engineering Science Paper 4 Memoranda 2013
 - Highlighting and Note-Taking N3 Engineering Science Paper 4 Memoranda 2013
 - Interactive Elements N3 Engineering Science Paper 4 Memoranda 2013
8. Staying Engaged with N3 Engineering Science Paper 4 Memoranda 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers N3 Engineering Science Paper 4 Memoranda 2013
9. Balancing eBooks and Physical Books N3 Engineering Science Paper 4 Memoranda 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection N3 Engineering Science Paper 4 Memoranda 2013
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine N3 Engineering Science Paper 4 Memoranda 2013
 - Setting Reading Goals N3 Engineering Science Paper 4 Memoranda 2013
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of N3 Engineering Science Paper 4 Memoranda 2013
 - Fact-Checking eBook Content of N3 Engineering Science Paper 4 Memoranda 2013
 - 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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