

# **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]**

# Sample Questions Engineering Science N3

**David Baud**



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### **Table of Contents Sample Questions Engineering Science N3**

1. Understanding the eBook Sample Questions Engineering Science N3
  - The Rise of Digital Reading Sample Questions Engineering Science N3
  - Advantages of eBooks Over Traditional Books
2. Identifying Sample Questions Engineering Science N3
  - 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 Sample Questions Engineering Science N3
  - User-Friendly Interface
4. Exploring eBook Recommendations from Sample Questions Engineering Science N3
  - Personalized Recommendations

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

- 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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