

# **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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**VM Jensen**



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## **Table of Contents Engineering Science Quetion Papers N3**

1. Understanding the eBook Engineering Science Quetion Papers N3
  - The Rise of Digital Reading Engineering Science Quetion Papers N3
  - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Science Quetion Papers 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 Engineering Science Quetion Papers N3
  - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Science Quetion Papers N3
  - Personalized Recommendations
  - Engineering Science Quetion Papers N3 User Reviews and Ratings
  - Engineering Science Quetion Papers N3 and Bestseller Lists
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    - Engineering Science Qestion Papers N3 Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Engineering Science Qestion Papers N3
    - Highlighting and Note-Taking Engineering Science Qestion Papers N3
    - Interactive Elements Engineering Science Qestion Papers N3
  8. Staying Engaged with Engineering Science Qestion Papers N3
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Engineering Science Qestion Papers N3
  9. Balancing eBooks and Physical Books Engineering Science Qestion Papers N3
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Engineering Science Qestion Papers N3
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Engineering Science Qestion Papers N3
    - Setting Reading Goals Engineering Science Qestion Papers N3
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Engineering Science Qestion Papers N3
    - Fact-Checking eBook Content of Engineering Science Qestion Papers 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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