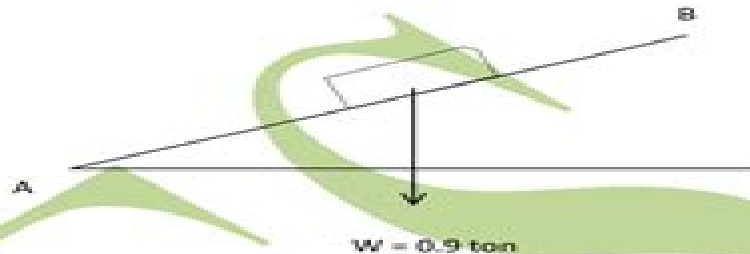


# **QUESTION 1: MOTION, ENERGY AND POWER**

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]**

# Engineering Science N3 Question Papers Answers

**Ying Liu**



## **Engineering Science N3 Question Papers Answers:**

## **Engineering Science N3 Question Papers Answers** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has are more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Engineering Science N3 Question Papers Answers**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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