

MEMORANDUM

QUESTION 1

(16 MARKS)

1.1 What is a scalar quantity? (1)

Quantity with magnitude only ✓✓

1.2 A Hyundai Accent moves from rest and accelerate for 20 seconds and reaches a speed of 72 km/h. It continues with the uniform velocity for 10 seconds and driver brakes and the car stop after 10 seconds.

1.2.1 Make a sketch of a velocity-time graph



Calculate the following:

1.2.2 The acceleration in the first 20 seconds.

$$a = \frac{v - u}{t} = \frac{20 - 0}{20} \checkmark = 1 \text{ ms}^{-2} \checkmark$$

1.2.3 Total distance

$$s = \text{area under curve} = \frac{1}{2}(10 + 40)20 \checkmark = 500 \text{ m} \checkmark$$

1.2.4 The average velocity in 40 seconds.

$$\text{average} = \frac{\text{displacement}}{\text{time}} = \frac{500}{40} \checkmark = 12.5 \text{ ms}^{-1} \checkmark$$

(3 × 2)

(6)

Engineering Science N3 April 2012 Memorandum

**Marthinus Johannes Janse Van
Rensburg, Andries Sarel Van Rooyen**



Engineering Science N3 April 2012 Memorandum:

Engineering Science N3 Marthinus Johannes Janse Van Rensburg, Andries Sarel Van Rooyen, 1995

This book delves into Engineering Science N3 April 2012 Memorandum. Engineering Science N3 April 2012 Memorandum is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Engineering Science N3 April 2012 Memorandum, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Engineering Science N3 April 2012 Memorandum
 - Chapter 2: Essential Elements of Engineering Science N3 April 2012 Memorandum
 - Chapter 3: Engineering Science N3 April 2012 Memorandum in Everyday Life
 - Chapter 4: Engineering Science N3 April 2012 Memorandum in Specific Contexts
 - Chapter 5: Conclusion
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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Engineering Science N3 April 2012 Memorandum.

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