

## 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

**S Ashworth**



**Engineering Science N3 April 2012 Memorandum:**

## Decoding **Engineering Scince N3 April 2012 Memorandum**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Engineering Scince N3 April 2012 Memorandum**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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