

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 20memorandum

Yan Bai



Engineering Science N3 April 20memorandum:

Embracing the Song of Expression: An Psychological Symphony within **Engineering Science N3 April 20memorandum**

In a world consumed by displays and the ceaseless chatter of instant connection, the melodic splendor and psychological symphony developed by the written term usually disappear in to the backdrop, eclipsed by the relentless sound and disruptions that permeate our lives. However, situated within the pages of **Engineering Science N3 April 20memorandum** a stunning fictional value brimming with fresh emotions, lies an immersive symphony waiting to be embraced. Crafted by an outstanding composer of language, this interesting masterpiece conducts readers on a mental trip, skillfully unraveling the concealed songs and profound affect resonating within each cautiously constructed phrase. Within the depths of this emotional evaluation, we can investigate the book is main harmonies, analyze their enthralling publishing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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