

MEMORANDUM

QUESTION 1

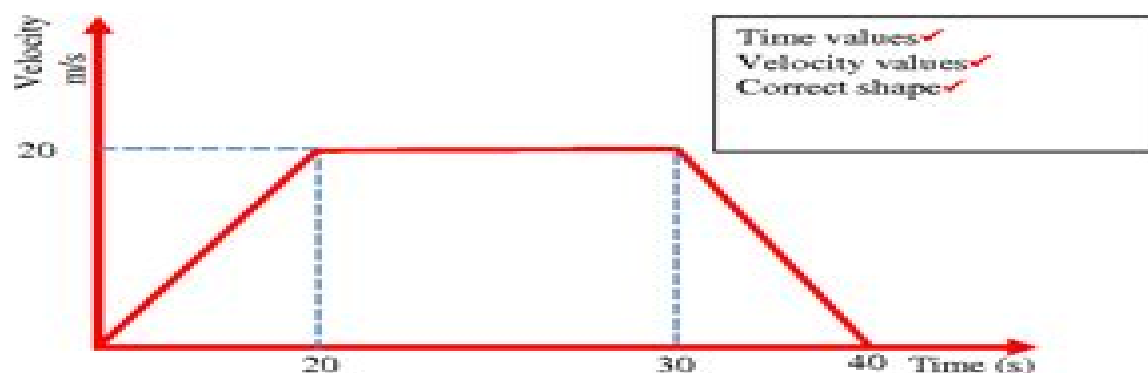
(16 MARKS)

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)

July 2014 Engineering Science N3 Xpaper Memorandum

Daniela Niemeyer



July 2014 Engineering Science N3 Xpaper Memorandum:

Enjoying the Beat of Phrase: An Mental Symphony within **July 2014 Engineering Science N3 Xpaper Memorandum**

In some sort of used by monitors and the ceaseless chatter of fast conversation, the melodic elegance and emotional symphony produced by the written word often diminish in to the background, eclipsed by the persistent sound and distractions that permeate our lives. But, nestled within the pages of **July 2014 Engineering Science N3 Xpaper Memorandum** a wonderful literary prize brimming with raw feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant musician of language, that fascinating masterpiece conducts readers on a psychological trip, well unraveling the hidden melodies and profound influence resonating within each carefully constructed phrase. Within the depths with this touching examination, we will explore the book is main harmonies, analyze its enthralling writing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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