





(1)

MEMORANDUM

QUESTION 1

(16 MARKS)

1.1 What is a scalar quantity?

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.

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

1.2.3 Total distance

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

1.2.4 The average velocity in 40 seconds.

average =
$$\frac{\text{displacement}}{\text{cone}} = \frac{100}{40} \checkmark = 12.5 \text{ ms}^{-1} \checkmark$$
 (3 x 2)

Engineering Science N3 April 2009 Memo

Raffaela Di Napoli

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