



GRADE 10 PHYSICAL SCIENCES CONTROL TEST
MEMO

QUESTION 1

- 1.1. B ✓✓
1.2. B ✓✓
1.3. A ✓✓
1.4. A ✓✓
1.5. B ✓✓
1.6. C ✓✓
1.7. B ✓✓
1.8. A ✓✓

[16]

QUESTION 2

- 2.1.1 Starts from rest/ $0 \text{ m}\cdot\text{s}^{-1}$ ✓
Velocity increases at a constant rate ✓
until he reaches $2,5 \text{ m}\cdot\text{s}^{-1}$ after 25 s. ✓

OR

- Starts from rest/ $0 \text{ m}\cdot\text{s}^{-1}$ ✓
Constant positive acceleration ✓
until he reaches $2,5 \text{ m}\cdot\text{s}^{-1}$ after 25 s. ✓

(3)

- 2.1.2 Constant/uniform velocity ✓
for another 25 s. ✓

OR

- Zero/No acceleration ✓
for another 25 s. ✓

OR

- Velocity remains $2,5 \text{ m}\cdot\text{s}^{-1}$ in the
direction of motion ✓
for another 25 s. ✓

(2)

- 2.2.1 $acceleration = \frac{\Delta v}{\Delta t}$ ✓
 $= \frac{0-2,5}{100-80}$ ✓
 $= -0,0625$

$a = 0,063 \text{ m}\cdot\text{s}^{-2}$ ✓ opposite to direction of motion ✓

(4)

- 2.2.2 Length of track = Area between the graph and the time axis ✓
 $= \frac{1}{2} (2,5) (35+100)$ ✓
 $= 168,75 \text{ m}$ ✓

OR

- Length of track = Area of trapezium ✓
 $= \frac{1}{2} (2,5) (35+100)$ ✓
 $= 168,75 \text{ m}$ ✓

OR

- Length of track = Area between the graph and the time axis
 $= \frac{1}{2} bh + \frac{1}{2} bh + lb$
 $= \frac{1}{2} (2,5) + \frac{1}{2} (40)(2,5) + (35)(2,5)$
 $= 31,2 + 87,5 + 50$
 $= 168,75 \text{ m}$ ✓

(4)
[13]

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