Practice Question Set For GCSE
Subject : Physics
Paper-2 Topic: GCSE Triple Science_Forces (Low Demand Questions)

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Name of the Student:_____
Max. Marks : 20 Marks **Time : 20 Minutes**

Mark Schemes

Q1.

(a) B

1

(b) horizontal line drawn from (40, 20) to (300, 20)

1

straight line drawn from the point where line B finishes to 0 m/s

1

finishing on the x-axis at 360 s

allow a straight line showing time to decelerate as 60s

1

(c)

$$\text{acceleration} = \frac{\text{(change in) velocity}}{\text{time (taken)}}$$

allow $a = \frac{(\Delta)v}{t}$

1

(d)

$$1.15 = \frac{\Delta v}{22}$$

*an answer 25.3 scores **3** marks*

1

$\Delta v = 1.15 \times 22$

1

$\Delta v = 25.3$ (m/s)

1

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Q2.

(a) crate

1

(b) centre of mass

1

(c) the pointer is vertical

allow unable to see the pointer
allow the bar is horizontal

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1

(d) P

1

(e) moment (of a force) = force x distance

allow M = F d

1

(f)

*an answer 2.5 (N) scores **3** marks*

0.15 = W × 0.06

1

$$W = \frac{0.15}{0.06}$$

1

W = 2.5 (N)

1

(g) weight = mass × gravitational field strength

allow W = m g

1

(h)

*an answer 0.215 or 0.22 (kg) scores **3** marks*

2.5 = m × 9.8

allow ecf from part (f)

1

m = 2.5 / 9.8

1

mass rice = 0.215 (kg)

*an answer of 0.255 or 0.26 (kg) scores **2** marks*

1

[12]

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