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 : 25 Marks **Time : 25 Minutes**

Mark Schemes

Q1.

(a) wavelength **1**

frequency **1**

this order only

(b) parallel **1**

(c) 8000 Hz **1**

(d) period = $\frac{1}{8000}$

allow ecf from part ***(c)*** **1**

0.000125 (s) **1**

(e) $\lambda = \frac{330}{6600}$ **1**

$\lambda = 0.050$

allow 0.05 **1**

m **1**

(e) distance travelled = speed × time

or

$s = vt$

allow any correct rearrangement **1**

(f) $13.2 = 330 \times t$ **1**

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$t = \frac{3600}{\quad}$

1

t = 0.040 (s)

allow 0.040 (s)

1

(g) loudspeaker **B** is closer to the technician (than speaker **A**)

*'it' means speaker **B***

1

so the sound would take more time to travel (to the technician)

1

so the sound from each speaker arrives at the technician at the same time

1

[16]

Q2.

(a) 30 (°)

1

(b) zero error

1

(c) subtract 0.5 N from each measurement

1

(d) points plotted correctly

*allow 5 correctly plotted for **2** marks, 2–4 correctly plotted for **1** mark*

allow ± half a square

ignore any attempt at a line of best fit

2

(e) the long ramp has a smaller angle

allow description (eg shallower gradient / less steep)

1

(so) less force is needed (to hold the wheelchair stationary on the ramp)

allow (so) less force is needed to move the wheelchair up the ramp

1

(f) W = 160 × 2.5

1

W = 400 (J)

1

[9]

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