Practice Question Set For GCSE

Subject: Physics

Paper-2 Topic: GCSE Triple Science\_Waves (LDQ)



Name	e of	the	Studer	าt:	 	 	 				
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Max. Marks: 20 Marks Time: 20 Minutes

## Mark Schemes

## Q1.

(a) C

1

(b) reflection at the mirror of ray from shoe to person's eye may be drawn freehand

1

angle of incidence = angle of reflection

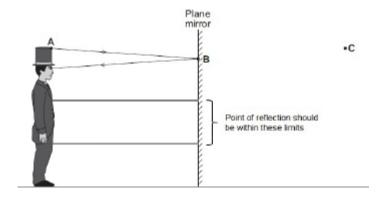
judged by eye

a ruler must have been used

1

arrow to show correct direction on either incident or reflected ray
only one arrow needed but if more drawn must be no contradiction
both incident and reflected ray must be shown

1



(c) virtual

[5]

1

## **Q2.**

(a) vibrate / oscillate

accept a correct description move is insufficient

1

(b) 336

allow **1** mark for correct substitution, ie  $420 \times 0.8(0)$  provided no subsequent step shown

2

(	)	) (	3

(a) (i) wavelength accept frequency accept speed

1

(ii) amplitude

accept energy height is insufficient

1

(iii) sound

1

(b) 0.12

allow **1** mark for correct substitution, ie  $8 \times 0.015$  provided no subsequent step shown

2

1

metre per second or m/s or metre/second

do **not** accept mps units must be consistent with numerical answers

[6]

## Q4.

(a) to reflect (the infrared)

accept (shiny surfaces) are good reflectors ignore reference to incorrect type of wave

1

(b) black

1

best absorber (of infrared)

answer should be comparative black absorbs (infrared) is insufficient accept good absorber (of infrared) ignore reference to emitter ignore attracts heat ignore reference to conduction

1

(c) to reduce energy loss

accept to stop energy loss accept heat for energy accept to stop / reduce convection

0

so temperature of water increases faster accept to heat water faster accept cooks food faster

or

(d) 672 000

allow 1 mark for correct substitution, ie 2  $\times$  4200  $\times$  80 provided no subsequent step shown

2

[6]