## Practice Question Set For GCSE

**Subject: Physics** 

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



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Name of the Student:	
Max. Marks: 16 Marks	Time: 16 Minutes

Mark Schemes

## Q1.

(a) focal length

this answer only

(b) one correct line drawn from the top of the object, passing through the lens and crossing or meeting given line

ignore any arrow drawn on the line if two lines are drawn, both must be correct

inverted image drawn at the correct position and length arrowhead required

(c) similarity (both are) diminished

difference concave is <u>virtual</u> and convex is <u>real</u>

or

concave is upright and convex is inverted

allow smaller for diminished

a comparison must be made
ignore reference to positions of images

(d) an answer of 1.5 (mm) scores **3** marks

$$6.0 = \frac{9.0}{\text{object height}}$$

object height =  $\frac{9.0}{6.0}$ 

object height = 1.5 (mm)

provided working can be seen, an attempt to convert 9.0 mm to cm or m with all other steps correct scores **2** marks

[8]

## Q2.

- (a) Regrettably, this part of the question assessed content that we had stipulated would only be assessed on the Higher tier. All students were awarded full marks for this part of the question.
- (b) 0.4

1

1

(c) wave speed = frequency  $\times$  wavelength allow  $v = f \lambda$ 

1

(d)  $7200 = 0.4 \times \text{wavelength}$ 

1

$$wavelength = \frac{7200}{0.4}$$

1

wavelength = 18000 (m)

allow up to full marks for ecf using their answer to part (b)

a method shown as  $7200 \times 2.5 = 18000$  scores **0** marks

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2

an answer 18 000 scores 3 marks

(e) Regrettably, this part of the question assessed content that we had stipulated would only be assessed on the Higher tier. All students were awarded full marks for this part of the question.

[8]