## Waves

## Past Paper Questions AQA Physics GCSE

Figure 1 shows a water wave.

Figu	re 1
	•x \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
01.	
What type of wave is a water wave?	[1 mark]
Tick (✓) one box.	[1 mark]
Electromagnetic	
Longitudinal	
Transverse	
02.	
Which statement describes the movement of the v	
Tick (✓) one box.	[1 mark]
The water at point <b>X</b> does <b>not</b> move.	
The water at point <b>X</b> moves to the left and right.	
The water at point <b>X</b> moves up and down.	

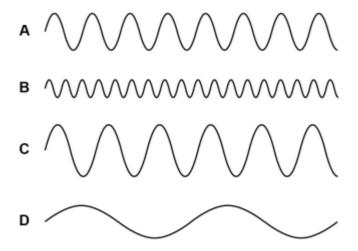
03.					
The wave has a free	quency of 2.0 her	tz.			
The wavelength is 0	0.032 metres.				
Calculate the wave	speed				
Use the equation:	opood.				
ood and oquation.	wave speed	= frequency × v	wavelength		
Choose the unit from			gar		
Choose the drift hol	iii die box.				[3 marks]
	m²/s	m/s	S <sup>2</sup>	]	
				_	
	Wave s	speed =		Unit	
04.					
What is transferred	by all waves?				[1 mark]
Tick (✓) one box.					
Energy					
Information					
Water					

Figure 2 shows four water waves.

The waves are all drawn to the same scale.

The waves all travel at the same speed.





05.

Which wave has the longest wavelength?

[1 mark]

Tick (✓) one box.

06.

Which wave has the highest frequency?

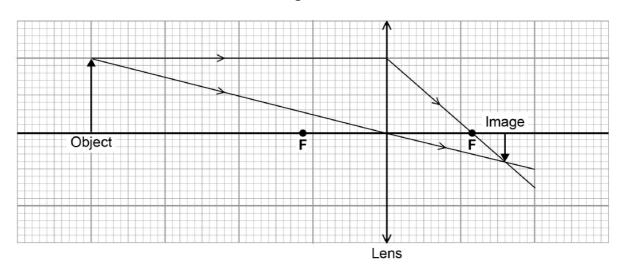
[1 mark]

Tick (✓) one box.

A B C D

Figure shows how a lens forms an image of an object.

## **Figure**



07.

What type of lens is represented in Figure		
Tick (✓) <b>one</b> box.		[1 mark]
Concave		
Convex		
Diverging		

08.

Measure the image height and the object height in Figure

_			
	-		
			N

Image height = \_\_\_\_ cm

Object height = \_\_\_\_ cm

09.			
	n magnificatio	n produced by the lone	
		n produced by the lens.	
Use the equa	ation:		
		magnification = image heigh object heigh	<u>t</u>
		object neigh	[2 marks]
		Magnification	1 =
10.			
Which <b>two</b> w	ords describe	e the image in <b>Figure</b>	
Tick (✓) <b>two</b>			[2 marks]
TICK (* ) two	DOXES.		
Enlarged			
Inverted			
Real			
Upright			
Virtual			

11.						
The o	The object was blue.					
A stu	dent looked at the	e blue objec	t through a gre	een filter.		
Comp	Complete the sentences.					
Choose answers from the box.					[2 marks]	
	black	blue	green	red	white	
Looking at the blue object through a green filter makes the object appear						
This is because the green filter only transmits the light that is						