Practice Question Set For GCSE

Subject: Physics



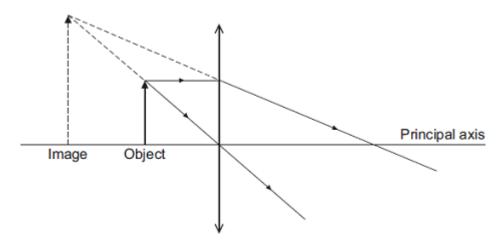


	the Student:rks : 21 Marks	Time : 21 Minutes
Q1.		
Wav	ves may be longitudinal or transverse.	
(a)	Describe the differences between longitudinal waves and transverse waves.	
(b)	Radio waves are electromagnetic waves.	(3)
	Describe how radio waves are different from sound waves.	
		(4) (Total 7 marks)

Q2.

(a) The diagram shows how a convex lens forms an image of an object.

This diagram is **not** drawn to scale.



(i) Which **two** words describe the image?

diminished

Draw a ring around each correct answer.

inverted

			(2)
(ii)	The object is 4 cm from the lens. The lens ha		
	Calculate the image distance.		
		Image distance =	cm

magnified

real

upright

(b) What does a minus sign for an image distance tell us about the nature of the image?

(1) (Total 6 marks)

(3)

(1)

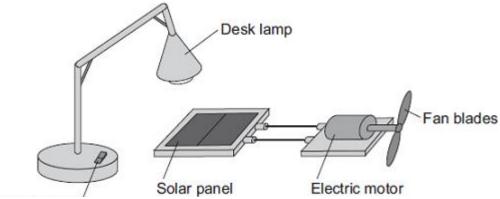
Q3.

- (a) Light waves transfer energy.
 - (i) Complete the following sentence.

The oscillations producing a light wave are ______

to the direction of the energy transfer by the light wave.

(ii) The apparatus in the diagram shows that light waves transfer energy.



		Solar panel	Electric motor	
	Describe how switching	d off shows that light waves transfer energy.		
	You do not need to des	sfers.		
				(2)
	dent holds a wrist watch watch in the mirror.	in front of a plane mi	irror. The student can see an image of the	(2)
The c	diagram shows the positi	ion of the wrist watch	and the mirror.	
	/////	///////////	// Plane mirror	
		•		
		Wrist wat	tch	
Draw	a ray diagram showing	how the image of the	wrist watch is formed.	
Mark	the position of the imag	e.		(4)
The i	mage of the wrist watch	seen by the student is	s virtual.	(/
	is a virtual image?	223 27 3 3 3 4 4 4 4 4	- · · · · · · · · · · · · · · · · · · ·	
····at	a riitaai iiiago .			

(b)

(c)

(1) (Total 8 marks)