

ELECTROMAGNETIC WAVES PART 3

Q1.

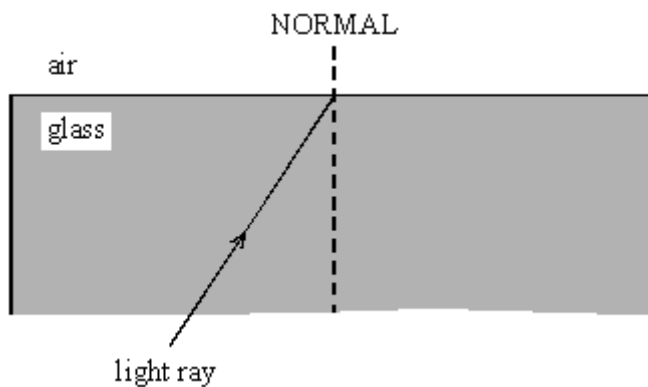
The diagram shows some of the kinds of waves in the electromagnetic spectrum. Choose words from this list to complete the empty boxes on the diagram.

alpha radiation		infrared radiation		radio waves		X-rays	
Shortest wavelength				Longest wavelength			
gamma radiation		ultraviolet radiation	light		microwaves		

(Total 3 marks)

Q2.

The diagram shows a ray of light travelling through a glass block.



- (a) Complete the diagram to show what happens to the ray of light when it comes out of the glass.

(2)

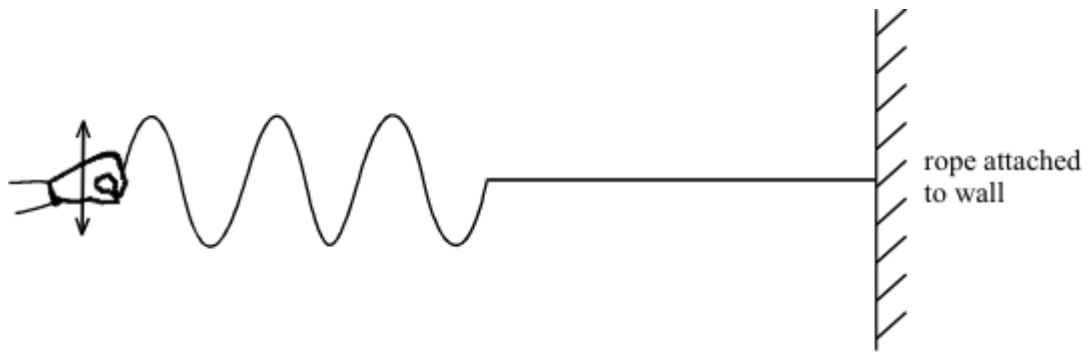
- (b) Explain why this happens to the ray of light.

(2)

(Total 4 marks)

Q3.

The diagram shows some waves travelling along a rope.



(a) Show on the diagram

(i) the wavelength of one of the waves

(2)

(ii) the amplitude of one of the waves

(2)

(b) The waves shown on the diagram were produced in two seconds.

What is the frequency of the waves?

(2)

(Total 6 marks)

