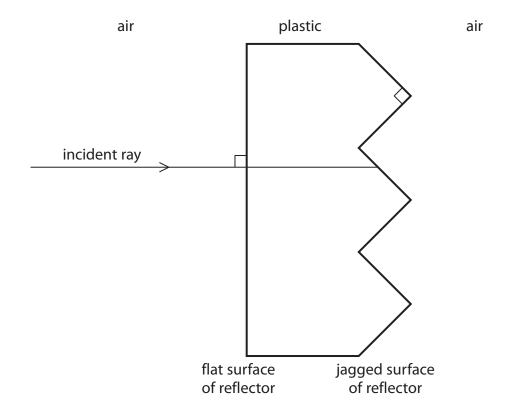
O	(a)	Λ 3	tudent wants to find the renactive index of a glass block.	
		(i)	Draw a diagram to show how the student should set up the apparatus needed to find the refractive index of a glass block.	
			Label your diagram.	(2)
		(ii)	What measurements should the student take to find the refractive index of the glass block?	(2)
		(iii)	Describe how the student should use these measurements to find the refractive index of the glass block.	(2)



(b) The diagram shows a section through a bicycle reflector.

A ray of light is incident on the flat surface of the reflector.



(i) The critical angle for the plastic of the reflector is less than 45°.

Continue the incident ray on the diagram to show the path of the ray until it emerges from the plastic.

(2)

(ii) What happens to the incident ray as it enters the plastic?

(1)

(Total for Question 6 = 9 marks)

