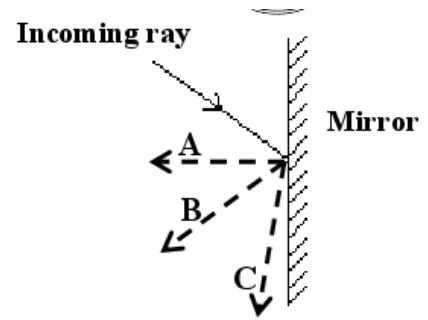


Question 1

_____.

- (d) On which of the paths A, B or C will the incoming ray of light travel after striking the mirror?

Which of the words on the right describes what happened to the ray of light after it hit the mirror?



Convection
Reflection

Question 2

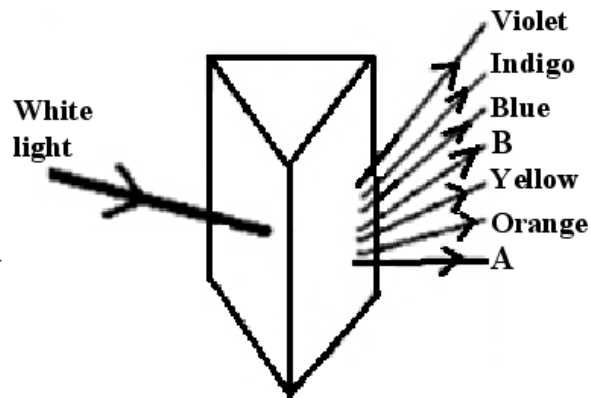
- (a) A student carried out an investigation to show that white light is composed of different colours. A beam of white light was passed through a prism as shown below.

examiner use only	
(6)	(1) (2)

Name the colours labelled A and B in the band of colours formed.

Colour A _____

Colour B _____



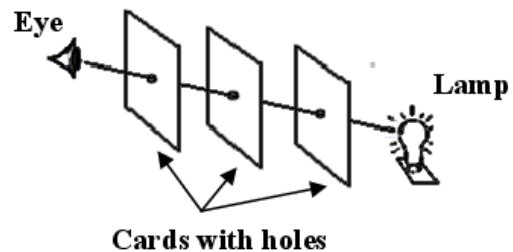
Question 3

- (b) A student then carried out another experiment on light as shown in the diagram.

Answer the questions that follow. (6)

What would the student see if the card in the middle is moved sideways?

What does this experiment tell us about light?

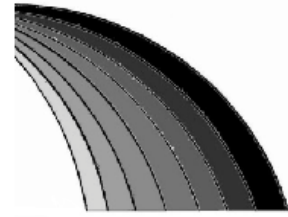


Question 4

(a) A rainbow is seen when white light is separated into its colours.

(i) Name the process that happens when white light is separated into its colours. _____

(ii) Name a piece of laboratory apparatus which can be used to separate white light into its colours. _____



Question 5

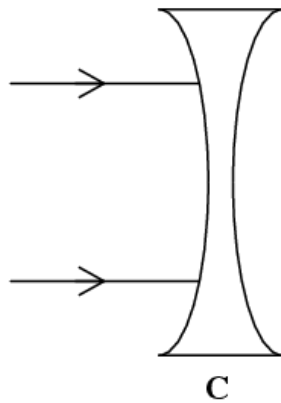
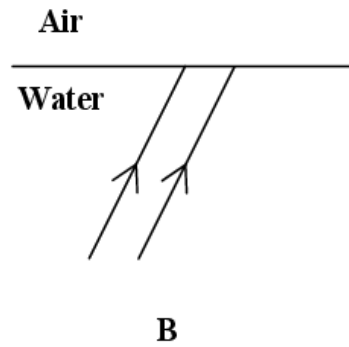
(a) Diagram A shows two rays of light hitting a plane mirror.

Diagram B shows two rays of light travelling from water into air.

Diagram C shows two rays of light hitting a concave lens.

(i) Complete the ray diagrams below.

(9)



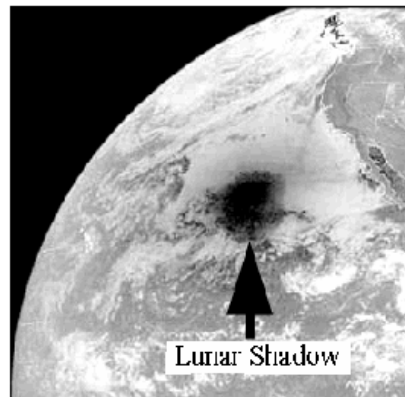
(ii) Name the process that occurs when rays of light pass from water into air.

(3)

(1) (2)

Question 6

- (e) The photograph, taken from a satellite above the earth, shows the shadow of the moon on the earth's surface.



Examiner
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(1) (2)

- (i) Where does the **light** falling on the earth's surface come from?

Where? _____

- (ii) What **property of light** enables the formation of shadows?

What? _____

Question 7

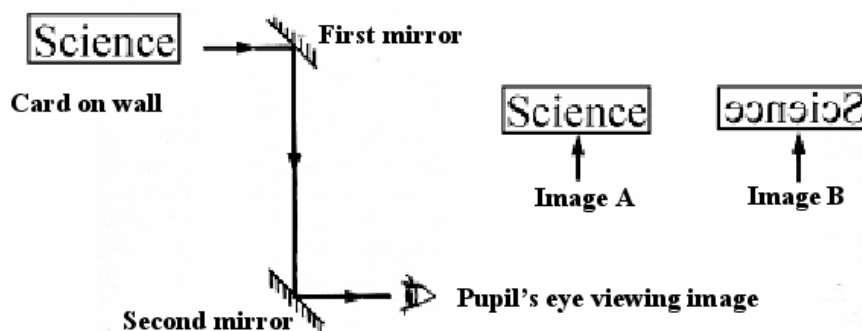
- (a) (i) Why is the word **Ambulance** painted in reverse on the front of many ambulances? (3)

Why? _____



(1) (2)

- (ii) A pupil made a **simple periscope** using two plane (flat) mirrors. The mirrors were arranged as shown in the diagram. The pupil looked through the periscope at the word 'Science' written on a card pinned to the laboratory wall.



Did the pupil see **image A** or **image B** when she looked through the periscope? Give a **reason** for your answer. (9)

Image? _____

Reason _____
