

## GCSE Physics A (Gateway) J249/02 Physics A P5-P8 and P9 (Foundation Tier)

**Question Set 11** 

1 (a) Lenses can be used to help people see clearly.

Fig. 1.1 is a diagram of a convex lens.



Fig. 1.1

(i) A student models the lens using two glass **prisms** and a glass **block**.

Complete the ray diagram **Fig. 1.2** to show how light rays travel through the model lens (glass prism and glass block).

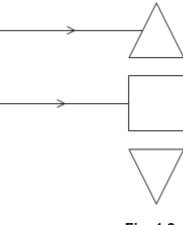


Fig. 1.2

(ii) Explain how a convex lens can correct long-sighted vision.

Use the model in Fig. 1.2 to help you.

[2]

[2]

**(b)** A student looks at coloured paper in different coloured light.

Fig. 1.3 is a diagram of her experiment.

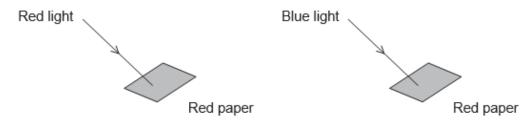


Fig. 1.3

She looks at red paper with red light. The paper appears red.

What colour does the red paper appear in blue light?

Explain your answer.

[2]

## **Total Marks for Question Set 11: 6**



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