

- 4 (a) State what is meant by the term *polarisation* when applied to a wave.

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[1]

- (b) Explain why only transverse waves can be polarised.

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[2]

- (c) Some films released have enabled viewing in three dimensions (3D). This can be done using two superimposed polarised images on the screen. One of the images is the scene as viewed by a left eye and the other the scene as viewed by a right eye.

Explain how the images on the screen need to be polarised and how the spectacles of the cinema-goer also need to be polarised.

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..... [3]

- (d) Suggest why superposition has no meaning for the two superimposed images in part (c).

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..... [1]

[Total: 7]

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