

1 a Define the amplitude of a wave.

(1 mark)

b i Other than electromagnetic radiation, give one example of a wave that is transverse.

(1 mark)

ii State one difference between a transverse wave and a longitudinal wave.

(1 mark)

c Figure 1 shows two identical polarising filters, A and B, and an unpolarised light source. The arrows indicate the plane in which the electric field of the wave oscillates.

i If polarised light is reaching the observer, draw the direction of the transmission axis on filter B in Figure 1.

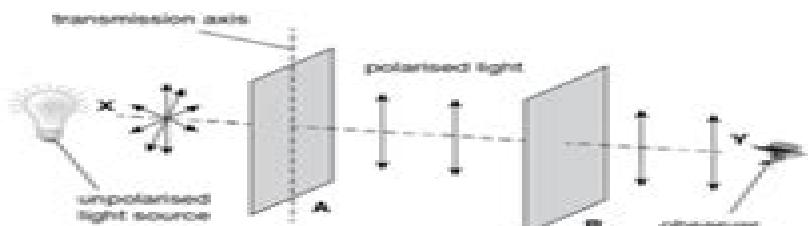


Figure 1

ii The polarising filter B is rotated clockwise through  $360^\circ$  about line XY from the position shown in Figure 2. On the axes below, sketch how the light intensity reaching the observer varies as this is done.

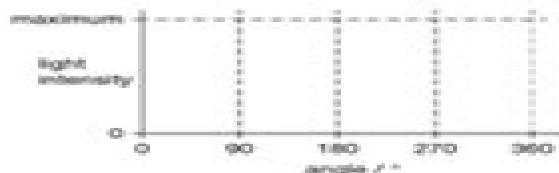


Figure 2

(2 marks)

# Aqa Exam Style Questions Answers Physics Achapter 4

**Daniel F McAuley**

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