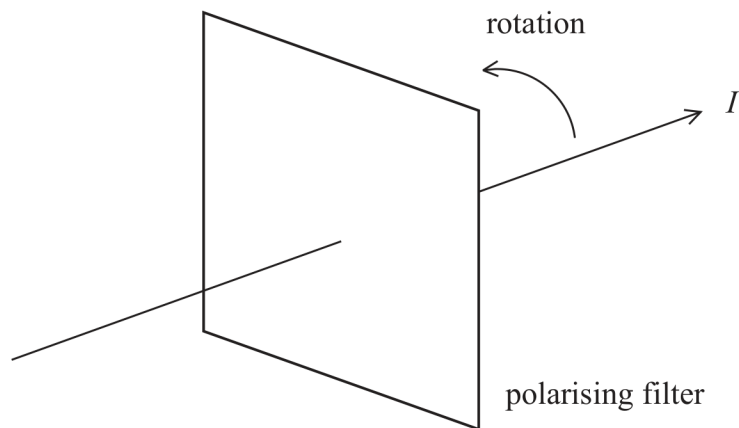


- 4 A ray of unpolarised light is incident on a polarising filter. The polarising filter transmits light of intensity  $I$ , as shown.



The polarising filter is then rotated in the direction shown on the diagram.

Which of the following gives the intensity of light transmitted after the filter has been rotated  $90^\circ$ ?

- ☐ A 0
- ☐ B  $\frac{I}{4}$
- ☐ C  $\frac{I}{2}$
- ☐ D  $I$

(Total for Question 4 = 1 mark)