

- 15** A beam of light goes through a polarising filter, followed by a sugar solution and then through a second polarising filter. The polarising axes of the two filters are initially aligned. The sugar solution has the effect of rotating the light's plane of polarization clockwise by 45° .

How should the second polarizing filter be rotated so that no light passes through?

- A** 45° clockwise
- B** 45° anti-clockwise
- C** 90° clockwise
- D** 90° anti-clockwise