A monochromatic light is incident at a certain angle on an equivalent triangle prism and suffers minimum deviation. If the refractive index of the material of the prims is  $\sqrt{3}$ , then the angle of incidence is?

| A | 30º |  |  |  |  |
|---|-----|--|--|--|--|
| в | 45° |  |  |  |  |
| С | 90° |  |  |  |  |
| D | 60° |  |  |  |  |

## Solution

Correct option is D) i = e  $r_1 = r_2 = \frac{A}{2} = 30^{\circ}$ by Snell's law  $1 \times \sin i = \sqrt{3} \times \frac{1}{2} = \frac{\sqrt{3}}{2}$ i = 60.