| In the given figure, each diode has a forward |
| :--- | :--- |
| bias resistance of $30 \Omega$ and infinite resistance in |
| reverse bias. The current $\mathrm{I}_{1}$ will be: |
| (A) 3.75 A |
| (B) 2.73 A |
| (C) 2.35 A |
| (D) 2 A |

## Solution

Each of the forward biased diodes can be replaced by resistor of resistance $30 \Omega$.
The reverse biased diode can be made open due to infinite resistance.

$R_{e q}=100 \Omega$
$I_{1}=\frac{200}{100}=2 \mathrm{~A}$
Option (D).

