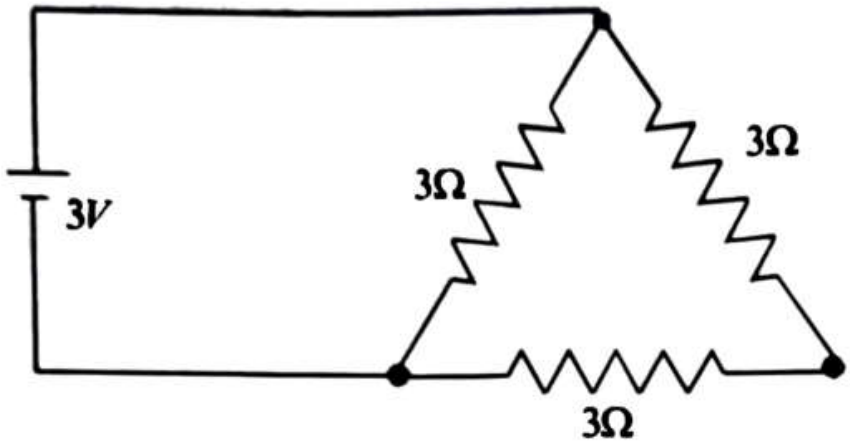
Q 08

A 3 volt battery with negligible internal resistance is connected in a circuit as shown in the figure. The current I, in the circuit will be [2003]



(a) 1 A (b) 1.5 A (c) 2 A (d) 1/3 A

ans

(b) $R_p = \frac{3\times 6}{3+6} = \frac{18}{9} = 2\Omega$

$\therefore V = IR \Rightarrow I = \frac{V}{R} = \frac{3}{2} = 1.5A$