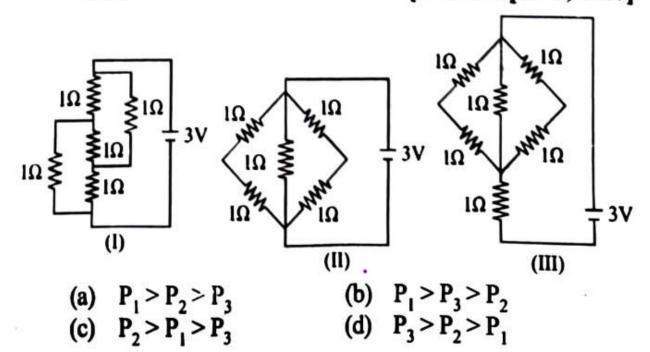
Q 01 The figure shows three circuits I, II and III which are connected to a 3V battery. If the powers dissipated by the configurations I, II and III are P₁, P₂ and P₃ respectively, then:

[Online April 9, 2017]



(c) From the given circuit, net resistances $R_{I} = 1 \Omega, R_{II} = 1/2 \Omega, R_{III} = 3/2 \Omega$ It is clear that $R_{3} > R_{1} > R_{2}$ Hence, $P_{3} < P_{1} < P_{2}$

As Power (P) =
$$\frac{V^2}{R} \Rightarrow P \propto \frac{1}{R}$$