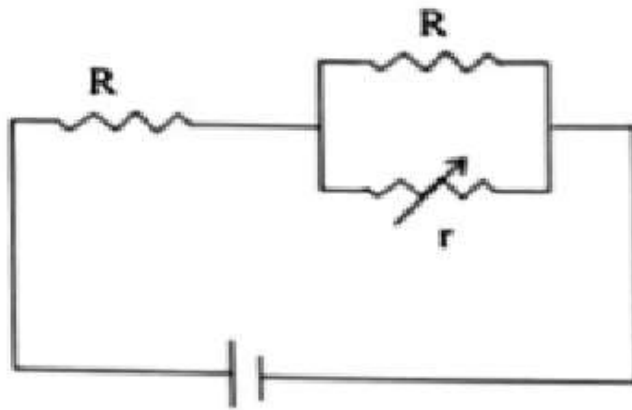


Q 03



In the circuit shown, the resistance r is a variable resistance. If for $r = fR$, the heat generation in r is maximum then the value of f is : [Online April 9, 2016]

- | | |
|-------------------|-------------------|
| (a) $\frac{1}{2}$ | (b) 1 |
| (c) $\frac{1}{4}$ | (d) $\frac{3}{4}$ |

(c) Heat energy will be maximum when resistance will be minimum.