## Answer on Question \#45215, Physics, Electric Circuits

To get maximum current in a resistance of 3 ? one can use $n$ rows of $m$ cells connected in parallel. If the total no. of cells is 24 and the internal resistance of a cell is 0.5 then (a) $\mathrm{m}=12, \mathrm{n}=2$ (b) $\mathrm{m}=8, \mathrm{n}=4$ (c) $\mathrm{m}=2$, $\mathrm{n}=12$ (d) $\mathrm{m}=6, \mathrm{n}=4$

## Solution

Answer is (a) $\mathrm{m}=12, \mathrm{n}=2$. Indeed if we have 12 cells in a row, resistance of one row is $6 \Omega$. Two such raw in parallel connection will give us $3 \Omega$ resistance in total.

