A heater coil is cut into two equal parts and only one part is now used in the heater. The heat generated will now be [2005]

- four times (a)
- halved (c)
- (b) doubled
- (d) one fourth

(b)
$$H = \frac{V^2 I}{R}$$

Resistance of half the coil = $\frac{R}{2}$

.. As R reduces to half, 'H' will be doubled.