27.Which of the following is the energy of a possible excited state of a possible excited state of hydrogen? (2015)

1) +13.6 eV 2) -6.89 eV 3) -3.4 eV 4) +6.8 eV Ans.

(3)
$$E = -13.6 \frac{Z^2}{n^2} eV$$

 $n = 2$ (First Excited state) $\Rightarrow E = 3.4 eV$