

24. The electrons identified by quantum numbers n and l (2012)

a) $n = 4, l = 1$ b) $n = 4, l = 0$

c) $n = 3, l = 2$ d) $n = 3, l = 1$

can be placed in order of increasing energy as

1) $c < d < b < a$ 2) $d < b < c < a$

3) $b < d < a < c$ 4) $a < c < b < d$

Ans.(2) Greater the $(n + l)$ value, greater is the energy. If $(n + l)$ values are equal, then greater the 'n' value greater is the energy.