

**Q11. Total number of orbitals associated with third shell will be \_\_\_\_\_.**

**(a) 2**

**(b) 4**

**(c) 9**

**(d) 3**

**Sol:** (c) No of orbitals in 3<sup>rd</sup> shell ( $n = 3$ ) =  $n^2 = 3^2 = 9$