**16.The "spin-only" magnetic moment [in units of Bohr magneton] of $Ni^{2+}$ in aqueous solution would be (Atomic number of Ni = 28) (2006)**

**1) 2.84 2) 4.9 3) 0 4) 1.73**

**Ans.**

(1) $\mu=\sqrt{(n(n+2))}$, where $Ni^{2+}$ has n = 2

$\mu = \sqrt{2(2+2)} = 2.838$ BM