

Give the electronic configuration of the following complexes on the basis of Crystal Field Splitting theory.

$[\text{CoF}_6]^{3-}$, $[\text{Fe}(\text{CN})_6]^{4-}$ and $[\text{Cu}(\text{NH}_3)_6]^{2+}$.

$[\text{CoF}_6]^{3-}$, $\text{Co}^{3+}(d^6) t_{2g}^4 e_g^2$,

$[\text{Fe}(\text{CN})_6]^{4-}$, $\text{Fe}^{2+}(d^6) t_{2g}^6 e_g^0$,

$[\text{Cu}(\text{NH}_3)_6]^{2+}$, $\text{Cu}^{2+}(d^9) t_{2g}^6 e_g^3$,