

The geometry of a complex species can be understood from the knowledge of type of hybridisation of orbitals of central atom. The hybridisation of orbitals of central atom in $[\text{Be}(\text{OH})_4]^-$ and the geometry of the complex are respectively

- (i) sp^3 , tetrahedral
- (ii) sp^3 , square planar
- (iii) $sp^3 d^2$, octahedral
- (iv) dsp^2 , square planar

Ans : 1.

Reason : See the structure of $[\text{Be}(\text{OH})_4]^-$