The CFSE for octahedral [CoCl $_{\rm g}$] $^{4-}$ is 18,000 cm $^{-1}.$ The CFSE for tetrahedral [CoCl $_{\rm d}$] $^{2-}$ will be

- (i) 18,000 cm⁻¹
- (ii) 16,000 cm⁻¹
- (iii) 8,000 cm⁻¹
- (iv) $20,000 \text{ cm}^{-1}$

Ans : iii

4/9CSFE(octahedral)=CFSE(tetrahedral)