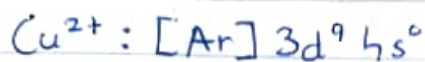
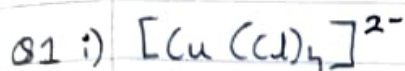
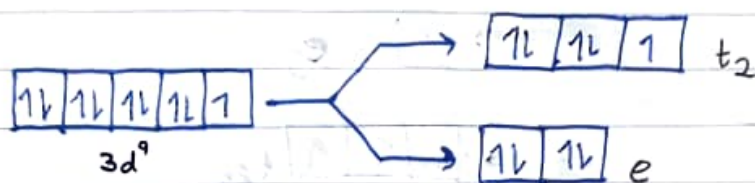


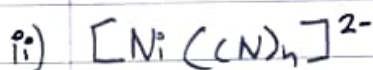
BCHY101L - Digital Assignment I



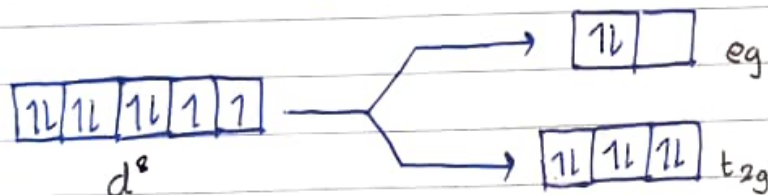
Crystal Field Diagram:



→ Complex is paramagnetic.



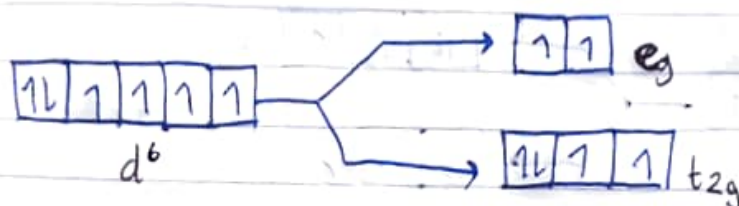
Crystal Field Diagram:



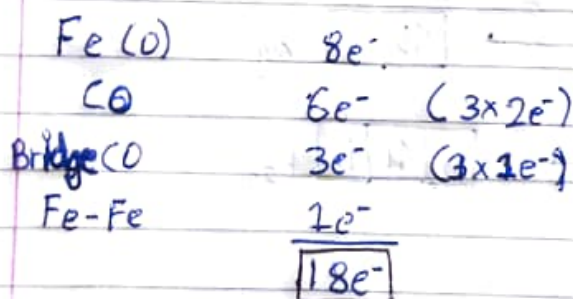
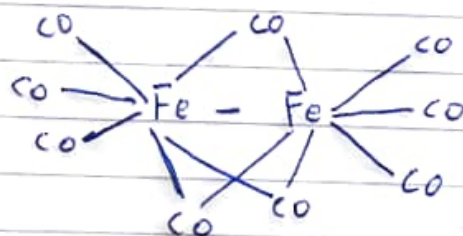
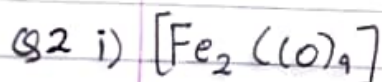
→ Complex is diamagnetic



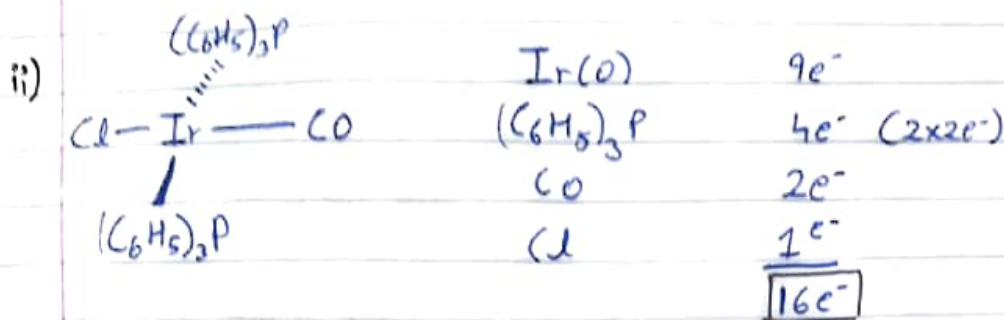
Crystal Field Diagram:



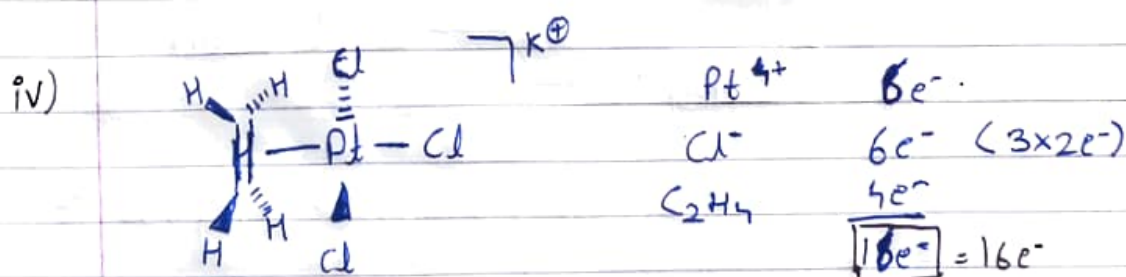
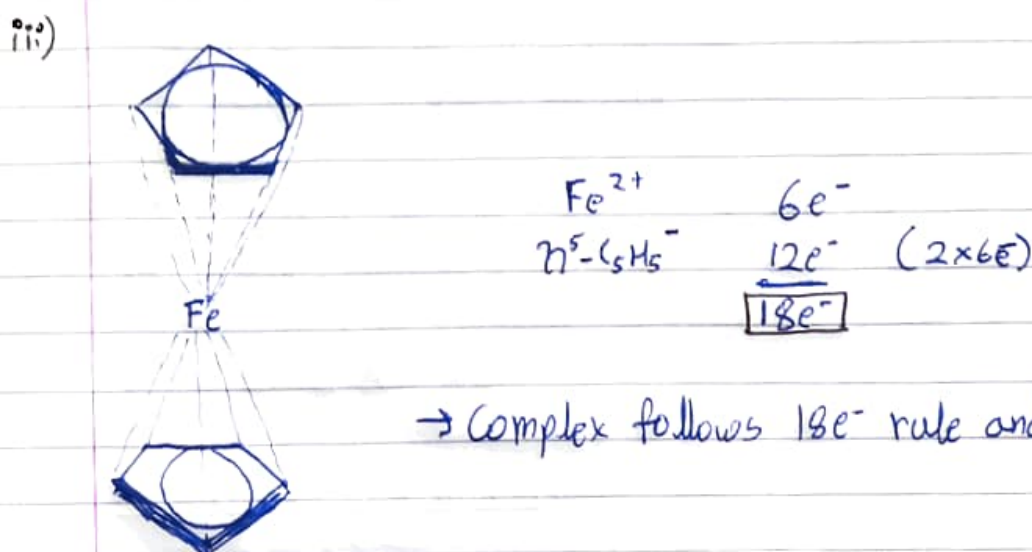
→ Complex is paramagnetic



→ Complex follows  $18e^-$  rule and is stable



- Complex does not follow 18e<sup>-</sup> rule and is unstable  
 → Although after undergoing Oxidative addition with H<sub>2</sub> it attains 18e<sup>-</sup>



- Complex does not follow 18e<sup>-</sup> rule and is not stable