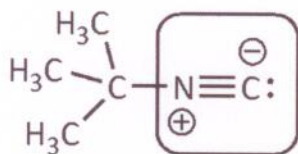


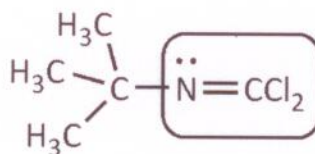
Quiz 1 (25 points)

Name Key

For questions 1-5, Consider the structures shown below.



A



B

1. For A, what is the hybridization of each of the atoms inside the box?



2. For A, what type of *orbital* does the lone pair of electrons occupy?



3. For B, what is the hybridization of the nitrogen atom?



4. For B, what type of *orbital* does the lone pair of electrons occupy?



5. For B, what is the approximate bond angle for the N-C-Cl bonds?

