ι.		1	one pairs, and any formal charges.
	(b) Estimate the C—N—C bond an	ngle and explain why.	
	(c) On your Lewis structure, indicate the hybridization of the C and N atoms. (d) How many $\sigma$ -bonds and $\pi$ -bonds are present in CH <sub>3</sub> NCO.		
2.	Draw each of the following molecules showing their geometry clearly. Indicate all bond dipol your pictures.		
	$\mathrm{PF}_3$	$\mathrm{CH_{2}O}$	$\mathrm{BF}_3$
	Which molecule(s) are polar?		
3.	The species $NO_2$ , $NO_2$ <sup>+</sup> , and $NO_2$ <sup>-</sup> have different bond angles. Arrange the three compounds is order of decreasing bond angle. Drawing the Lewis structures will help.		

4. Draw an MO diagram of the cyanide anion. What is the bond order of the CN bond? Is the cyanide anion paramagnetic or diamagnetic?