

Chapter 1

- c. H_2^+
- d. H_2^{2+}
- e. CH_4

ANSWER: d

15. Select the two statements that are true.

- a. All polar molecules have a significant dipole moment.
- b. All molecules containing polar bonds are polar molecules.
- c. The polarity of a bond is accurately indicated in every case by the formal charges of the atoms involved in the bond.
- d. All polar molecules contain one or more polar bonds.

ANSWER: a, d

16. Give the formal charge on the phosphorus atom in this structure. (Phosphorus is in group 5A directly under nitrogen in the periodic table.)



ANSWER: 0

17. Of the bonds marked, which bond is the shortest?



ANSWER: a

18. Given that the acetate anion has the these equally important resonance structures, what is the bond order of each carbon-oxygen bond?



- a. The bond order of all carbon-oxygen bonds is $\frac{1}{2}$.
- b. The bond order of all carbon-oxygen bonds is $\frac{3}{2}$.
- c. The bond order of all carbon-oxygen bonds is 1.0.
- d. The bond order of all carbon-oxygen bonds is 1.5.
- e. The bond order of one carbon-oxygen bond is 1.0, and the bond order of the other carbon-oxygen is

Organic Chemistry Marc Loudon Answers

Marc Loudon, Jim Parise, Lisa Bonner



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