Bonding and Geometry Homework Packet.

Remember to score your answers incredibly important that you make sure you are hitting the correct phrases that get you the points

|  |  |  |
| --- | --- | --- |
| Year | Question # | Description |
| 1999 | 8 (all) | Lewis structure and comparison of bond length  Lewis structure on molecular polarity |
| 2002B | 6(a-d) | Comparison of bond length  Comparison of shape and polarity of molecule  Comparison of shapes and planar vs 3D |
| 2008 | 5(d-f) | Lewis structure than geometry, hybridization of molecule and polarity of molecule |
| 2010 | 5(all) | a-c geometry: bond length, bond angle  d-f IMF’s and polarity |
| 2014 | 5 (all) | Comment on student hypothesis of bonding options in halogens—good one on seeing the new direction the exam is taking on explaining things |
| 2001 | 8(all) | Comparison of ALL bonding types—(c) is usually missed the most of any |
| 2004 | 7(all) | Comparison of properties  Comparison of molecular shape  Comparison of solubility (based on shape/polarity) |
| 2006 | 6 (all) | Comparison of molecules by IMF  Discussion of what is going on in a phase change/decomposition reaction  (c) iii perennially students screw this up—egad!!! |
| 2009 | 6(c-d) | Geometry and strength of LDF and d-d \*\*Look at note on (c) |
| 2012 | 5 (all except b)) | Comparison of molecules and the energy required to vaporize—you do not need to understand thermo to answer! |
| 2013 | 6(all) | Lewis and isomer! Discuss of comparison of properties based on IMF’s |