**Properties of Ionic Compounds Quiz Makeup – Topics**

1. Why do ionic compounds form crystals? (3 pt)
2. Determine whether the compounds below are most likely ionic or not ionic: (2 pt each)

* A compound with a melting point of -180 degrees Celsius and crumbles when you touch it.
* A compound that doesn’t catch fire when heated and has a hard texture.
* A compound that is a cloudy blue liquid.
* A compound that forms small, blue crystals.

1. Why are ionic compounds brittle? (3 pt)
2. Why are ionic compounds hard? (3 pt)
3. Polyvinylchloride (PVC) is a flexible compound that burns very poorly in air. Is PVC ionic? Explain your reasoning. (5 pt)