- 33. The following statement explain why water is denser than ice except:
 - A. Each water molecule in ice is tetrahedrally hydrogen bonded to four other water molecules.
 - B. In ice, water molecules in an open structure.
 - C. At lower temperature, water molecules are far apart.
 - D. There are large spaces within ice.
- 34. The conduction of electricity in metallic bonding is due to presence of
 - A. proton.
 - B. lattice.
 - C. delocalised electron.
 - D. nucleus.
- 35. Because of the mobility of the delocalised valence electrons, metals are
 - A. not able to be deformed without breaking.
 - B. not able to be drawn into wire.
 - C. bad electrical conductor.
 - D. able to transfer heat.
- Explain the boiling point of sodium and magnesium
 - A. Sodium has lower boiling point than magnesium because sodium has lower number of valence than magnesium.
 - B. Sodium has higher boiling point than magnesium because atomic size of sodium larger.
 - C. Sodium has lower boiling point than magnesium because sodium has less proton number.

- D. Sodium has higher boiling point than magnesium because sodium ion is larger. As the distance between valence electrons and positive nucleus get larger, attraction between the two stronger.
- 37. Factor(s) that influence(s) the values of boiling points of simple covalent molecule with comparable relative molecular mass is (are).
 - I: molecular geometry
 - II: resultant of dipole moment
 - III: types of intermolecular forces
 - A. I only
- C. II and III
- B. I and II
- D. I,II and III
- 38. Boiling point of halogen increases down a group because
 - A. Atomic size increases down a group.
 - B. Screening effect decreases down a group.
 - Number of proton increase, electron closer to nucleus.
 - Molecular size increases down a group.

