Answer Key Chemistry Term 1 Set B

- 1. f Block
- 2. 6.022×10^{23}
- 3. Mg
- 4. a) $1s^22s^22p^63s^23p^63d^54s^1$
 - b) Rearrangement of electrons in 3d and 4s so as to get half filled 3d subshell.
- 5. a) In liquid state, energy of the molecules will be greater than that in solid state.
 - b) Inter molecular attraction will be lower in liquid state, than that in solid state.
- 6. a) Copper sulphate solution.
 - b) Copper
- 7. a) $1s^22s^22p^63s^2$
 - b) 2
 - c) 12
- 8 a) 5 GMM
 - b) 5 mole
 - c) $5 \times 6.022 \times 10^{23}$
- 9. a) Cu
 - b) Cu --> Cu²⁺ + 2e-
 - c) Both oxidation and reduction take place simultaneously.
- 10. a) d Block, 4th period
 - b) +4
 - c) $1s^22s^22p^63s^23p^63d^3$
 - d. Energy difference between 3d and 4s electrons is very small.
- 11. a = 100, b = 4, c = 200

Boyle's Law

- 12. a) Ions which can move freely.
 - b) Electrolytes are substances which conduct electricity in molten states or in aqueous solutions and undergo chemical change.
 - c) acids, bases, salt solutions...
 - d) Michael Faraday