Tutorial No. 1 Date: 18-08-2014

- **Q1.** Which of the following pair is isoelectronic?
- (a) S, Se
- (b) S²⁻, Se²⁻
 - (c) Na^+ , O^{2-} (d) F_2 , Cl_2
- Q2. Calculate Z* values for F and F and from results predict which one has more electron affinity.
- **Q3.** Calculate Z* for 6s electron in Platinum.
- **Q4.** Arrange the following elements in increasing order of Ionization Energy.

Li, Be, B, C, N, O, F

- **Q5.** Why chloride (Cl⁻, 181 pm) Cl⁻ is smaller than phosphide ion (P⁻³, 212 pm)?
- Q6. What is the total number of valence electrons in CO₂ and NO₂?
- Q7. Which one of the following compounds have the same number of valence electrons as NO₂

 CO_2 , NO_2 , O_3 , CO_3 , or CO_2 ?

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