# JEE Main 2013 Question Paper with Solutions

## PART A — CHEMISTRY

1. An unknown alcohol is treated with the "Lucas reagent" to determine whether the alcohol is primary, secondary or tertiary. Which alcohol reacts fastest and by what mechanism:
   (1) tertiary alcohol by $S_N1$
   (2) secondary alcohol by $S_N2$
   (3) tertiary alcohol by $S_N2$
   (4) secondary alcohol by $S_N1$

   **Sol.** (1)
   Reaction proceeds through carbocation formation as $3^\circ$ carbocation is highly stable, hence reaction proceeds through $S_N1$ with $3^\circ$ alcohol.

2. The first ionization potential of Na is 5.1 eV. The value of electron gain enthalpy of $Na^+$ will be:
   (1) $-5.1$ eV
   (3) $-10.2$ eV
   (3) $+2.55$ eV
   (4) $-2.55$ eV

   **Sol.** (1)
   $Na \xrightarrow[\Delta H = -5.1 eV]{\Delta H = +5.1 eV} Na^+ + e^-$, here the backward reaction releases same amount of energy and known as Electron gain enthalpy.

3. Stability of the species $Li_2$, $Li_2^-$ and $Li_2^+$ increases in the order of:
   (1) $Li_2^- < Li_2^+ < Li_2$
   (3) $Li_2 < Li_2^+ < Li_2^-$
   (3) $Li_2^- < Li_2 < Li_2^+$
   (4) $Li_2 < Li_2^- < Li_2^+$

   **Sol.** (1)
   $Li_2 (6) = \sigma 1s^2 \ \hat{\sigma} 1s^2 \ \sigma 2s^2$
   B.O. $= \dfrac{4-2}{2} = 1$
   $Li_2^+ (5) = \sigma 1s^2 \ \hat{\sigma} 1s^2 \sigma 2s^1$
   B.O. $= \dfrac{3-2}{2} = 0.5$
   $Li_2^- (7) = \sigma 1s^2 \ \hat{\sigma} 1s^2 \sigma 2s^2 \ \hat{\sigma} 2s^1$
   B.O. $= \dfrac{4-3}{2} = 0.5$
   $Li_2^+$ is more stable than $Li_2^-$ because $Li_2^-$ has more numbers of antibonding electrons.

4. The molarity of a solution obtained by mixing 750 mL of 0.5 (M) HCl with 250 mL of 2(M)HCl will be:
   (1) 1.00 M
   (2) 1.75 M
   (3) 0.975 M
   (4) 0.875 M

   **Sol.** (4)
   $M_1V_1 + M_2V_2 = MV$
   $M = \dfrac{M_1V_1 + M_2V_2}{V} = \dfrac{0.5 \times 750 + 2 \times 250}{1000}$
   $M = 0.875$

5. Which of the following is the wrong statement?
   (1) $O_3$ molecule is bent
   (2) Ozone is violet-black in solid state
   (3) Ozone is diamagnetic gas
   (4) $ONCl$ and $ONO^-$ are not isoelectronic

   **Sol.** (All the options are correct statements)
   (1) Correct, as $O\!\!\diagup^{O}\!\!\diagdown O$ is bent.

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**Table of Contents Jee Main 2013 Question Paper With Solutions**

1. Understanding the eBook Jee Main 2013 Question Paper With Solutions
    - The Rise of Digital Reading Jee Main 2013 Question Paper With Solutions
    - Advantages of eBooks Over Traditional Books
2. Identifying Jee Main 2013 Question Paper With Solutions
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Jee Main 2013 Question Paper With Solutions
    - User-Friendly Interface
4. Exploring eBook Recommendations from Jee Main 2013 Question Paper With Solutions
    - Personalized Recommendations
    - Jee Main 2013 Question Paper With Solutions User Reviews and Ratings

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