

- iv. Face centred cubic crystal lattice of copper has density of 8.966 g. cm^{-3} . Calculate the volume of the unit cell.
Given: Molar mass of copper is 63.5 g. mol^{-1} and Avogadro number N_A is $6.022 \times 10^{23} \text{ mol}^{-1}$.

Q.3. Answer any SIX of the following:

[12]

- What is the action of the following reagents on ammonia;
 - Nessler's reagent
 - Sodium metal
- State the first and second law of electrolysis.
- Draw neat and labelled diagram of Bessemer converter used in the extraction of copper.
- Derive the relation between half-life period and rate constant for first order reaction.
- Derive the relation between ΔG° and equilibrium constant (K) for the reaction,
 $aA + bB \rightleftharpoons cC + dD$.
- Explain brown ring test with the help of chemical equation.
- Explain, why do aquatic animals prefer to stay at lower level of water during summer?
- Distinguish between:
Crystalline solids and Amorphous solids.

Q.4. Select and write the most appropriate answer from the alternatives given below each sub-question:

[7]

- To prepare n-type semiconductor, the impurity to be added to silicon should have the following number of valence electrons _____.
(A) 2 (B) 3
(C) 4 (D) 5
- Number of faradays. of electricity required to liberate 12 g of hydrogen is _____.
(A) 1 (B) 8
(C) 12 (D) 16
- What is molecular formula of oleum?
(A) H_2SO_5 (B) H_2SO_4
(C) $\text{H}_2\text{S}_2\text{O}_7$ (D) $\text{H}_2\text{S}_2\text{O}_8$
- Purification of aluminium by electrolytic refining is carried out by _____.
(A) Hoope process (B) Hall Process
(C) Baeyer process (D) Serperck process
- The rate of reaction for certain reaction is expressed as:
 $\frac{1}{3} \frac{d[A]}{dt} = -\frac{1}{2} \frac{d[B]}{dt} = -\frac{d[C]}{dt}$
The reaction is _____.
(A) $3A \longrightarrow 2B + C$ (B) $2B \longrightarrow 3A + C$
(C) $2B + C \longrightarrow 3A$ (D) $3A + 2B \longrightarrow C$
- A system absorbs 640 J heat and does work of 260 J, the change in internal energy of the system will be _____.
(A) + 380 J (B) - 380 J
(C) + 900 J (D) - 900 J
- Which of the following is 'not' a colligative property?
(A) Vapour pressure (B) Depression in freezing point
(C) Elevation in boiling point (D) Osmotic pressure

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