

Question	Answer Key
Which of the following species is not expected to be a ligand?	NH <sub>4</sub> <sup>+</sup>
The following results are as under for the reaction S+Nu	Sn2
Which one is the reaction to prepare CCl <sub>2</sub> F <sub>2</sub>	Swartz Reaction
How much gram of ethanol is required	1.15
Which product is obtained between the reaction of CH <sub>3</sub> ONa	Only Alkene
Which of the following Alcohol Undergo Dehydration reaction with Cu	Only Teritary
Howt <sub>2g</sub> <sup>4</sup> e <sub>g</sub> <sup>0</sup> configuration is possible for d <sup>4</sup> ion during crystal Field splitting in Octahedral complex?	Δ <sub>0</sub> > P
What kind of isomerism exists between [Cr(H <sub>2</sub> O) <sub>6</sub> ]Cl <sub>3</sub> and [Cr(H <sub>2</sub> O) <sub>5</sub> Cl]Cl <sub>2</sub> ·H <sub>2</sub> O	Solvate
Which of the following is the Compound Name of the compound CH <sub>2</sub> = CH - CHO	Acrolein
What is the correct order of acidity of a compound	I > III > II
Which of the following compound does not give a cannizaro reaction	CH <sub>3</sub> CHO
Which compound will give Hoffmaan bromide degradation reaction	Ar - CONH <sub>2</sub>
Benzene Diazonium chloride reacts with Phenol in a basic medium	26 - and 7
When alkaline KMnO is treated with KI, Iodide ion is oxidised to	IO <sub>3</sub> <sup>-</sup>
Which of the following are peroxy acids of Sulphur?	H <sub>2</sub> SO <sub>5</sub> and H <sub>2</sub> S <sub>2</sub> O <sub>8</sub>
Which of the following oxide show acidic property?	Mn <sub>2</sub> O <sub>7</sub>
By thermal decomposition of which of the following compound very pure dinitrogen gas can be obtained?	Sodium Azide
Which of the following ore is not in oxide form?	Malachite
Which statement is not correct for Glucose?	It contains furanose structure
Mention percentage of Ag (Silver) in German silver alloy.	0.0%
Which is correct order of flocculating power in the coagulation of As <sub>2</sub> S <sub>3</sub> ?	Al <sup>3+</sup> > Ba <sup>2+</sup> > Na <sup>+</sup>
Which of the following statement is incorrect for physisorption?	High temperature is favourable for adsorption. It increases with increase in temperature.
Which base is not present in the DNA structure?	Uracil
What are the two monomers of Glyptal Polymer?	Ethane - 1,2-Diol and Phthalic Acid
Which polymer is used in making non-stick surface coated	Teflon
Which artificial sweetening agent is limited in cold food	Aspartame

Polyethylene-glycol is used in the preparation of which	Non-Ionic Detergent
The correct order of packing deficiency in different types of the unit cell	fcc>bcc>simple cubic
Which of the following defect obtained by heating zinc oxide?	Metal Excess Defect
Which of the following aqueous solution has the highest boiling point?	0.1 M $\text{K}_4\{\text{Fe}(\text{CN})_6\}$
A reaction is first order in terms of A and second order in terms of B. What will be the rate of reaction, if the concentration of B is increased two times?	4-Times
Which will be the unit of rate constant for the reaction having $\text{Rate} = k [\text{A}]^{1/2} [\text{B}]^{3/2}$	$\text{Mol}^{-1} \cdot \text{lit} \cdot \text{Sec}^{-1}$
For which of the following graph of first order reaction the value of slope of $\log \frac{[\text{R}]_0}{[\text{R}]}$ vs $t$ (Time) is $k/2.303$ ?	$\log \frac{[\text{R}]_0}{[\text{R}]} \rightarrow t$ (Time)
Which of the following chemical reaction occur at anode during the electrolysis of higher concentrated $\text{H}_2\text{SO}_4$ solution?	$2\text{SO}_4^{2-}(\text{aq}) \rightarrow \text{S}_2\text{O}_8^{2-}(\text{aq}) + 2\text{e}^-$
Which of the following is correct Nernst equation for the given electrochemical cell? $\text{Mg}(\text{s})   \text{Mg}^{2+}(\text{aq}) (0.1\text{M})    \text{Cl}^-(\text{aq}) (0.1\text{M})   \text{Cl}_2(\text{g}) (1 \text{ bar})   \text{Pt}(\text{s})$	$E_{\text{cell}} = E^{\circ}_{\text{cell}} - (0.059/2) (\log[\text{Mg}^{2+}] / [\text{Cl}^-]^2)$
Resistance of a conductivity cell filled with 0.1 M $\text{KCl}$ solution is 100 ohms conductivity of solution is 1.29 $\text{s/m}$ . Then what will be the value of conductivity cell constant.	1.29 $\text{cm}^{-1}$
What is the osmotic pressure ( $\pi$ ) of 0.02 M solution of $\text{NaCl}$ ?	0.04 RT
We have three aqueous solutions of $\text{CH}_3\text{COONa}$ labelled as A, B and C with concentration 0.1 M; 0.01 M and 0.001 M respectively. The value of Vant Hoff's factor (i) for these solutions will be in order	$i_A = i_B = i_C$