

## JEE MAIN 23 JANUARY 2025 SHIFT 2

## CHEMISTRY QUESTION PAPER WITH ANSWER KEY

Q.N 0.	Questions	Answers
1.	The correct order of melting point of 14 group element is (K)	C> Si> Ge>Pb> Sn
2.	What will be effect on pH of water it is heated	Decrease
3.	$\alpha$ -helix protein and $\beta$ - pleated sheet protein belong from which of the following structure?	Secondary
4.	Match the following List I with list II         List-I (Alloys)       List-II (Metals)         A.       Bronze       (i)       Fe, Cr, and Ni         B       Stainless steel       (ii)       Cu and Sn         C       UK Gold Coin       (iii)       Cu and Zn         D       Brass       (iv)       Ag, Cu, Zn and Ni	A (ii) B (i) C (iv) D (iii)
5.	Which one of the following plots represents zero order reaction?	Rata Conc.
6.	By using relation $\Delta G = \Delta H - T\Delta S$ Which one of the following is incorrect for spontaneous reaction at a given temperature	ΔH>0 ΔS<0
7.	Statement I: For a particular shell, maximum number of orbital is $n^2$ Statement II: For d-subshell, number of orientations lies between -1 to +1 including zero	S-I and S-II both are correct
8.	The total number of isomers possible (aldehyde & ketones) for $C_4H_8O$ are	3
9.	Q. $ \begin{array}{c}  & (i) \text{ NaOH} \\  & High T \& P \\  & (i) H^{+} H_{2}O \\  & Predict A and B? \end{array} $	, <sup>4</sup> , ∮
10.	Which of the following complex has a <sup>14</sup> configuration	$[MnF_6]^{3-}$
11.	Consider the given following reaction $X_2Y(S) \_ X_2(g) + 1/2 Y_2(g)$ . If $\alpha$ is the degree of dissociation, Calculate Kp in terms of P total pressure	$\frac{Kp=2P^{3/2}}{3^{3/2}}$



