

ASSIGNMENT

all questions are compulsory

CHEMISTRY(Class XII)

1. How many chloride ions are surrounding sodium ion in sodium chloride crystal ?
2. A 5% solution of cane-sugar (molecular weight = 342) is isotonic with 1% solution of substance A. The molecular weight of X is?
3. The standard electrode potentials for the half cell reactions are:
$$\text{Zn} \rightarrow \text{Zn}^{2+} + 2\text{e}^- \quad E^\circ = 0.76 \text{ V}$$
$$\text{Fe} \rightarrow \text{Fe}^{2+} + 2\text{e}^- \quad E^\circ = -0.41 \text{ V}$$
The emf of the cell reaction
$$\text{Fe}^{2+} + \text{Zn} \rightarrow \text{Zn}^{2+} + \text{Fe}$$
 is
4. If the rate of a reaction is expressed by, $\text{rate} = k[\text{A}]^2[\text{B}]$, the order of reaction will be?
5. Volume of one mole of any gas at NTP is?
6. Malachite is an ore of?
7. Which oxide of nitrogen is obtained on heating ammonium nitrate at 250°C ?
8. Colour of transition metal ions are due to absorption of some wavelength. This results in
9. Nylon 6, 6 is obtained by condensation polymerisation of
10. Some drugs do not bind to the enzyme's active site, instead bind to a different site of enzyme. This site is called