

# Chemistry

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(Chapter 2) (Electrochemistry) (Intext Questions)  
(Class 12)

## Question 2.1:

How would you determine the standard electrode potential of the system  $\text{Mg}^{2+} | \text{Mg}$ ?

### Answer 2.1:

The standard electrode potential of  $\text{Mg}^{2+} | \text{Mg}$  can be measured with respect to the standard hydrogen electrode, represented by  $\text{Pt}_{(s)}, \text{H}_{2(g)}(1\text{atm}) | \text{H}^+_{(aq)}(1\text{M})$ .

A cell, consisting of  $\text{Mg} | \text{MgSO}_4(\text{aq } 1\text{M})$  as the anode and the standard hydrogen electrode as the cathode, is set up.



Then, the *emf* of the cell is measured and this measured *emf* is the standard electrode potential of the magnesium electrode.

$$E^\circ = E^\circ_{\text{R}} - E^\circ_{\text{I}}$$

Here,  $E^\circ_{\text{R}}$  for the standard hydrogen electrode is zero.

$$\therefore E^\circ = 0 - E^\circ_{\text{I}} = -E^\circ_{\text{I}}$$

## Question 2.2:

Can you store copper sulphate solutions in a zinc pot?

### Answer 2.2:

Zinc is more reactive than copper. Therefore, zinc can displace copper from its salt solution.

If copper sulphate solution is stored in a zinc pot, then zinc will displace copper from the Copper sulphate solution:  $\text{Zn} + \text{CuSO}_4 \rightarrow \text{ZnSO}_4 + \text{Cu}$

Hence, copper sulphate solution cannot be stored in a zinc pot.

## Question 2.3:

Consult the table of standard electrode potentials and suggest three substances that can oxidise ferrous ions under suitable conditions.

### Answer 2.3:

Substances that are stronger oxidizing agents than ferrous ions can oxidise ferrous ions.



This implies that the substances having higher reduction potentials than  $+0.77\text{ V}$  can oxidise ferrous ions to ferric ions. Three substances that can do so are  $\text{F}_2$ ,  $\text{Cl}_2$ , and  $\text{O}_2$ .

## Question 2.4:

Calculate the potential of hydrogen electrode in contact with a solution whose pH is 10.

### Answer 2.4:

For hydrogen electrode,  $\text{H}^+ + e^- \rightarrow \frac{1}{2}\text{H}_2$ , it is given that  $\text{pH} = 10$

$$\therefore [\text{H}^+] = 10^{-10}\text{ M}$$

Now, using Nernst equation:

$$E_{\left(\frac{\text{H}^+}{\frac{1}{2}\text{H}_2}\right)} = E^\circ_{\left(\frac{\text{H}^+}{\frac{1}{2}\text{H}_2}\right)} - \frac{RT}{nF} \ln \frac{1}{[\text{H}^+]}$$
$$E_{\left(\frac{\text{H}^+}{\frac{1}{2}\text{H}_2}\right)} = \frac{0.0591}{1} \log \frac{1}{[\text{H}^+]} = 0 - \frac{0.0591}{1} \log \frac{1}{[10^{-10}]}$$
$$= -0.0591 \log 10^{10} = -0.591\text{ V}$$

## Question 2.5:

Calculate the *emf* of the cell in which the following reaction takes place:



Given that  $E^\circ_{\text{Cell}} = 1.05\text{ V}$

# Chemistry Chapter 12 Solutions Answers

**JA Banks**



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person to see cells? 3. Why did he call them cells?