

YAKEEN NEET 2.0

2026

Electrochemistry

Physical Chemistry

Lecture -9

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Topics to be covered

- 1 MEDICS TEST, Revision of Last Class
- 2 Faradays laws of electrolysis
- 3 ~~Electrolytic cells~~ *Conductance*
- 4 MPQ, Home work from modules



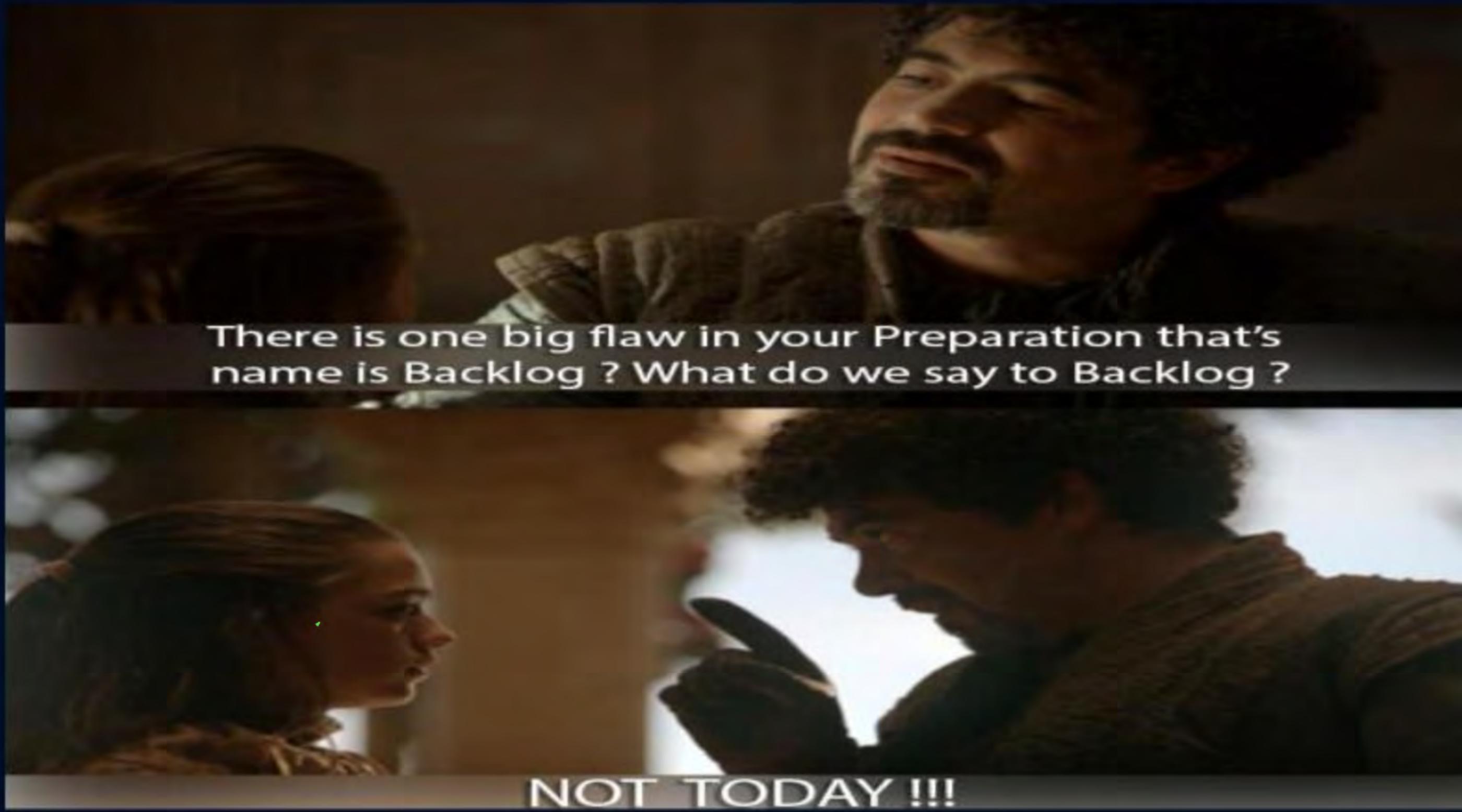
Rule to Attend Class

1. Always sit in a peaceful environment with headphone and be ready with your copy and pen.
2. Never ever attend a class from in between or don't join a live class in the middle of the chapter.
3. Make sure to revise the last class before attending the next class & always complete your home work along with DPP.
4. Never ever engage in chat whether live or recorded on the topic which is not being discussed in current class as by doing so u can be blocked by the admin team or your subscription can be cancelled.



Rule to Attend Class

5. Try to make maximum notes during the class if something is left then u can use the notes pdf after the class to complete the remaining class.
6. Always ask your doubts in doubt section to get answer from faculty. Before asking any doubt please check whether same doubt has been asked by someone or not.
7. Don't watch the videos in high speed if you want to understand better.

A scene from the TV show Game of Thrones. Arya Stark, with her signature braided hair, is looking up at Sandor Clegane, also known as The Hound. He has a large, dark beard and is wearing a fur-trimmed cloak. They are both looking towards the right side of the frame. The background is dark and atmospheric.

There is one big flaw in your Preparation that's name is Backlog ? What do we say to Backlog ?

NOT TODAY !!!

MEDICS



Mastery

Checks your grasp over
NEET-level concepts

Evaluation

Judging both knowledge
and test-smartness

Decision Making

Testing your speed + accuracy under pressure

Intuition

Some answers need gut + logic –
can you spot the trick?

Concepts

It's all about strong basics –
no shortcuts here

Strategy

The MEDICS test – built
for those who heal,
hustle, and hope.

Question

The metal that cannot be obtained on reduction of its oxide by aluminium is

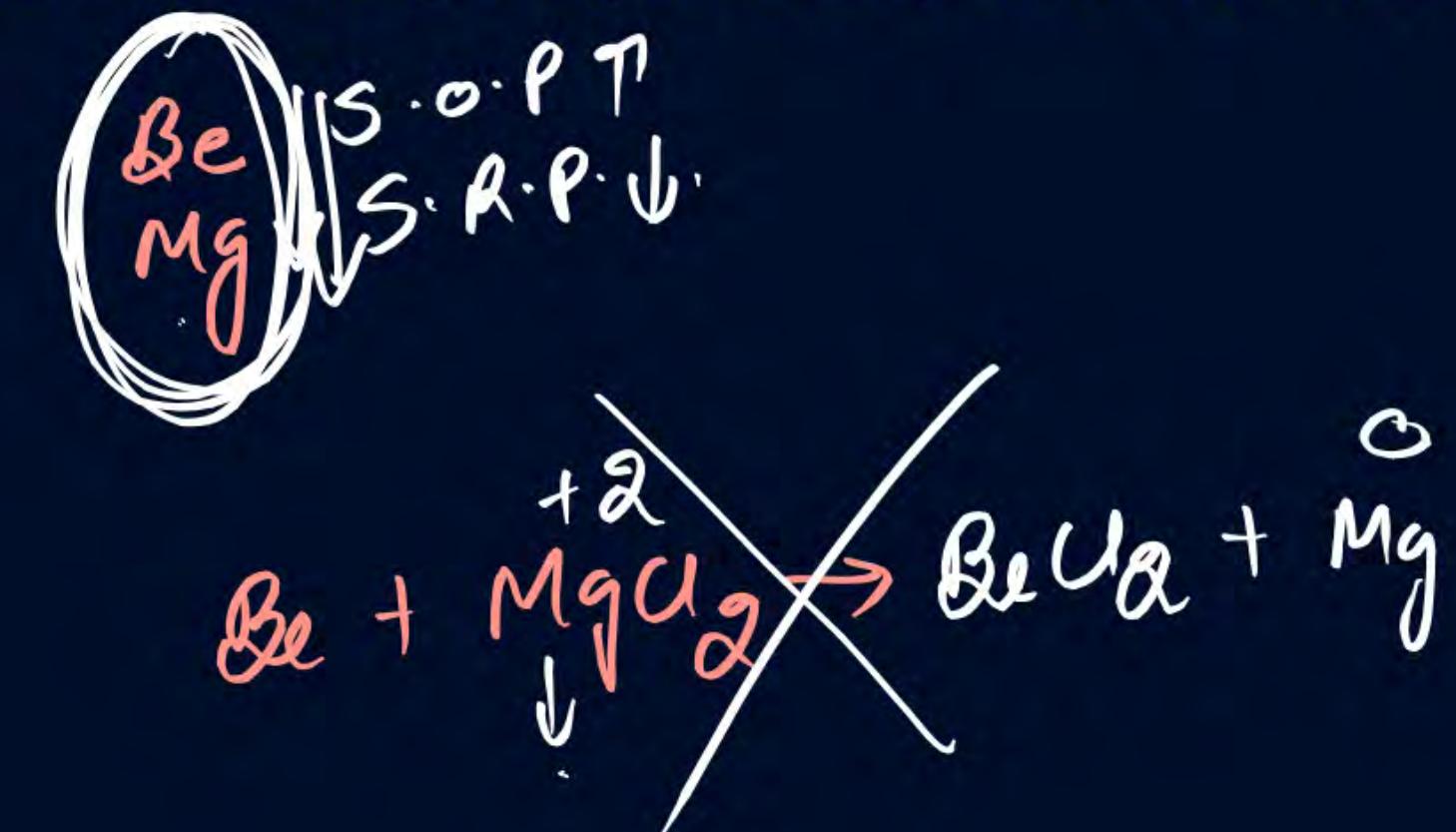


- A K
- B Mn
- C Cr
- D Fe

Question

Beryllium is placed above magnesium in the group II. Beryllium dust, therefore, when added to $MgCl_2$ solution will

- A have no effect
- B precipitate Mg metal
- C precipitate MgO
- D lead to dissolution of Be metal



Question

In salt bridge, normally KCl is used because

- A it is a strong electrolyte.
- B it is good conductor of electricity.
- C K⁺ and Cl⁻ ions have nearly same ionic mobility.
- D it is an ionic compound.

Question

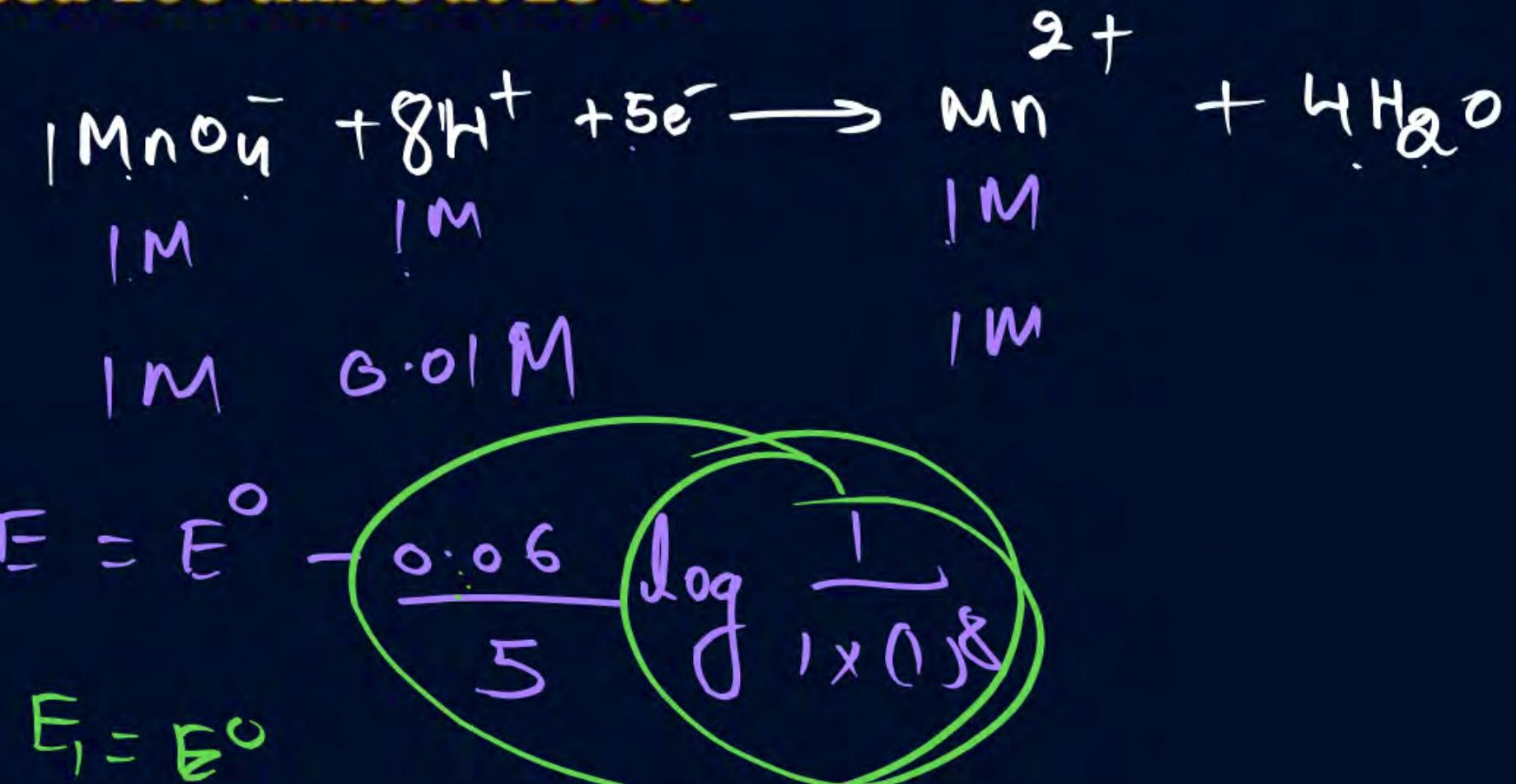
By how much would the oxidizing power of $\text{MnO}_4^-/\text{Mn}^{2+}$ couple change if the H^+ ions concentration is decreased 100 times at 25°C ?

- A increases by 189 mV

- B decreases by 189 mV

- C will increase by 19 mV

- D will decrease by 19 mV



$$E_2 = E^{\circ} - \frac{0.06}{5} \log_{(1)} \left(\frac{1}{(10^{-2})^8} \right)$$

$$= E^{\circ} - 0.012 \log 10^{16}$$

$$E_2 - E^{\circ} = -0.012 \times 16 \times 10^3 \text{ mV}$$

$$\approx -192 \text{ mV}$$

Question



The solution of CuSO_4 , in which copper rod is immersed, is diluted to 10 times.
The reduction electrode potential

- A increases by 0.0295 V
- B decreases by 0.0295 V
- C increases by 0.059 V
- D decreases by 0.059 V



$$E = E^{\circ} + \frac{0.06}{2} \log [\text{Cu}^{2+}]$$

$$E_1 = E^{\circ} + 0.03 \log 1$$
$$E_1 = E^{\circ} + 0.03 \log 10^{-1}$$

$$E_2 = E_1 + 0.03 \log 10$$
$$E_2 - E_1 = -0.03 \text{ V}$$

Question

For the electrochemical cell, $M \mid M^+ \parallel X^- \mid X$; $E_{M^+/M}^{\circ} = 0.44 \text{ V}$ and $E_{X/X^-}^{\circ} = 0.33 \text{ V}$.
From this data, one can deduce that

- A $M + X \longrightarrow M^+ + X^-$ is the spontaneous reaction
- B ~~$M^+ + X^- \longrightarrow M + X$ is the spontaneous reaction~~
- C $E_{\text{cell}} = 0.77 \text{ V}$
- D $E_{\text{cell}} = -0.77 \text{ V}$

$$\begin{aligned}E_{\text{cell}}^{\circ} &= 0.44 \text{ V} - (0.33 \text{ V}) \\&= 0.11 \text{ V}\end{aligned}$$

Question



The EMF of the cell: $\text{Zn} \mid \text{Zn}^{2+} (0.01\text{M}) \parallel \text{Fe}^{2+} (0.001 \text{ M}) \mid \text{Fe}$ at 298 K is 0.2905 V, then the value of equilibrium constant for the cell reaction is

A $e^{\frac{0.32}{0.0295}}$

C $10^{\frac{0.26}{0.0295}}$

B $10^{\frac{0.32}{0.0295}}$

D $10^{\frac{0.32}{0.0591}}$

$E_{\text{cell}} = 0.2905 \text{ V}$

$K = ?$

$E_{\text{cell}} = E_{\text{cell}}^{\circ} + 2.303 RT \log \frac{K}{10^{-2}}$

$0.2905 = E_{\text{cell}}^{\circ} + 2.303 RT \log \frac{K}{10^{-2}}$

$0.2905 - 2.303 RT = E_{\text{cell}}^{\circ}$

$$\Delta G^\circ_f = + nFE^\circ = + 2 \cdot 303RT \log K$$

$$0.2905 - 2.303RT = \frac{2.303RT}{nF} \log K$$

$$0.2905 - 2.303RT = \frac{0.0295}{2} \log K$$

antilog

$$\left(\frac{0.2905 - 2.303 \times 8.314 \times 298}{0.0295} \right) = K$$

$$\frac{6.2905 - 5705.8}{0.0295}$$

Question

A depolarizer used in dry cell batteries is

↳ Oxid. agent.



Which is correct about fuel cells?

- A Cell continuously run as long as fuels are supplied.
- B These are more efficient and free from pollution.
- C These are used to provide power and drinking water to astronauts in space programme.
- D All of these

Question

When a lead storage battery is discharged

- A SO_2 is evolved X
- B lead sulphate is consumed X
- C lead is formed X
- D sulphuric acid is consumed



Revision of Last Class

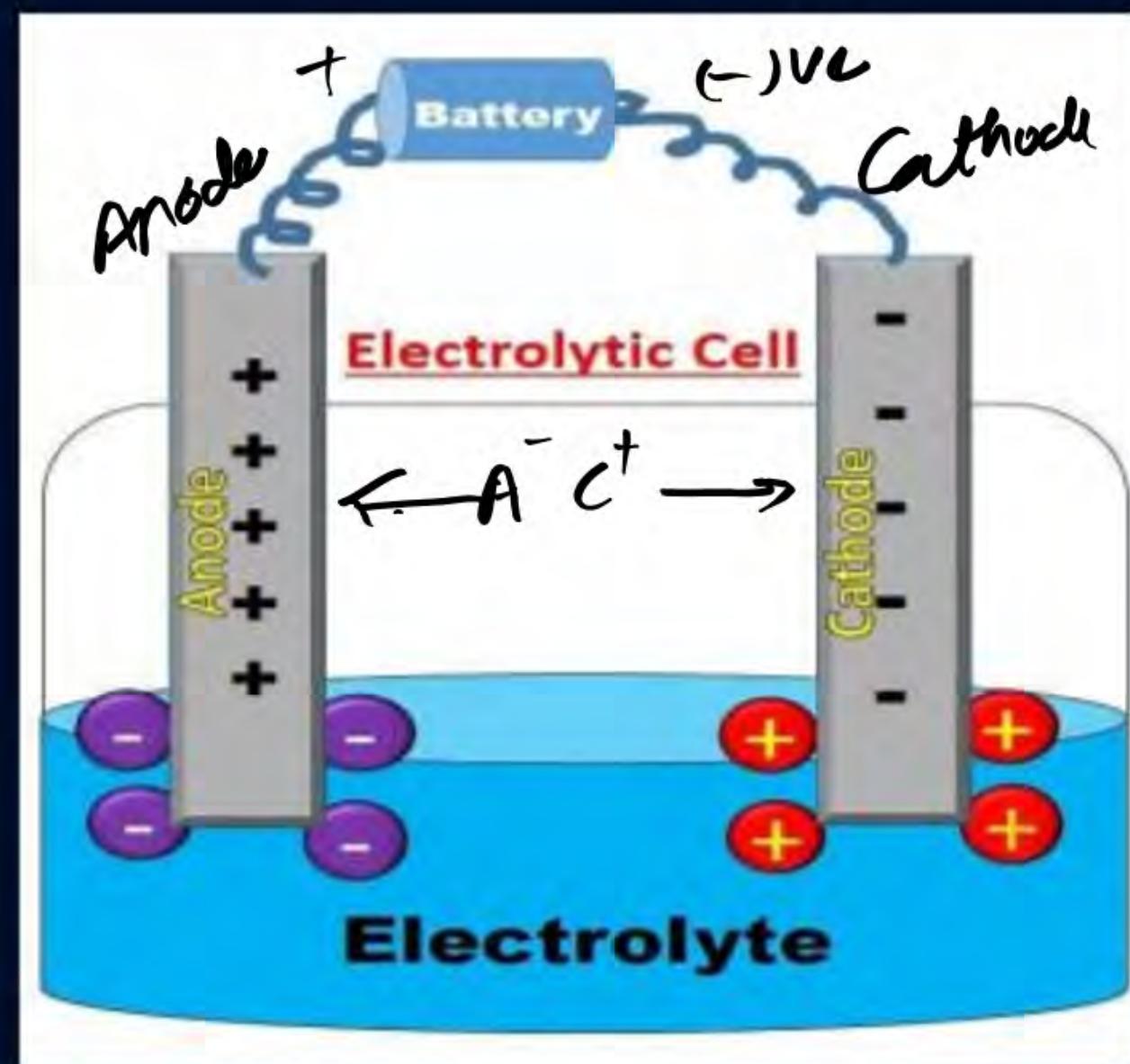
Electrolysis :-

S.R.P ↑ D.P.J discharge Cathode

S.O.P.↑ D.P.V ~~~~~ anode

Except $\text{Al}^{\text{3+}}$ & $\text{O}^{\text{2-}}$

$\text{Cu}^{\text{2+}}$ $\text{N}^{\text{3-}}$ $\text{O}^{\text{2-}}$ or in $\text{C}^{\text{2-}}$ $\text{B}^{\text{3-}}$





Faraday's First Law of Electrolysis

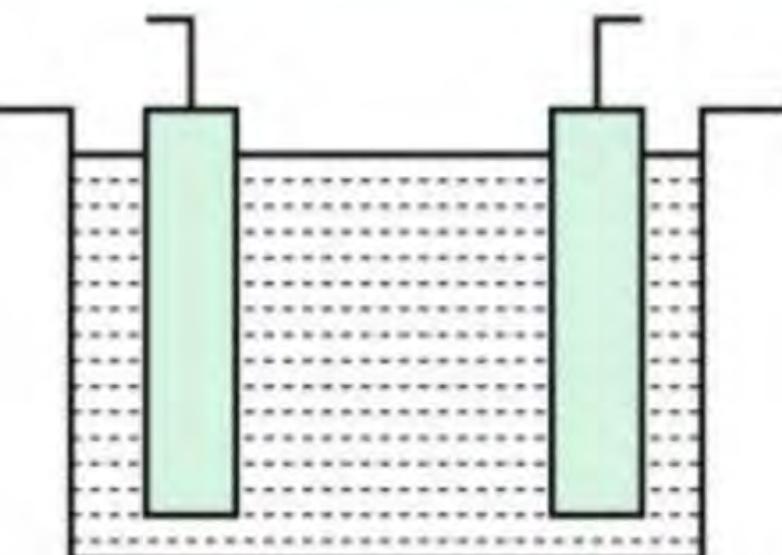
$$m \propto q$$

$$m = Z q \xrightarrow{It}$$

$$m = \frac{\text{eq wt}}{F} q \xrightarrow{n e}$$

$$= \frac{G \cdot M \cdot I t}{n F}$$

Faraday's Laws of Electrolysis



$$\textcircled{1} \quad m = Z q$$

$$Z = \frac{\text{eq. wt.}}{F} = \frac{G_i \cdot M \cdot M}{n F}$$

electrochemical eq. e^- lost or gained

$$m = \frac{G_i \cdot M \cdot M}{n F} I t \quad \textcircled{2} \quad 1 \text{ g. eq. deposit} = 1 F$$

$$1 \text{ mole deposit} = n F$$

I = Current in A

t = time in s

F ≈ 96500 C

m = mass deposit

\textcircled{3} 1 F is equal to charge of
1 mole of e^-

$$\begin{cases} q = It \\ q = \frac{n e^-}{J} \\ \text{no. of } e^- \end{cases}$$

$$\frac{m}{E} = \frac{q}{F}$$

$$g \cdot \text{eq.} = \frac{q}{F}$$

$$I = \frac{q}{t} \Rightarrow q = F \quad \text{1 g. } H_2$$

$$1 \text{ g. eq. deposit} \rightarrow 8 \text{ g. } O_2$$

$$1 \text{ g. eq.} \downarrow \quad 35.5 \text{ g. } U_2$$

$$1 \text{ g. eq.} \downarrow \quad 108 \text{ g. } Ag$$

~~1 g. eq. Ca~~

$$\frac{m}{E} = \frac{q}{F}$$

$$\frac{m}{G \cdot M \cdot M} \times n = \frac{q}{F}$$

$$\text{moles} \times n = \frac{q}{F}$$

1 mole

$$q = nF$$

Avogadro's no. = 6.022×10^{23}

$$1 e^- \text{ charge} = 1.6 \times 10^{-19} C$$

$$1 \text{ mole } e^- = 1.6 \times 10^{-19} \times 6.022 \times 10^{23}$$

$$\approx 96500 C$$

QUESTION-(NEET 2024)



Match List-I with List-II.

A

A-II, B-IV, C-I, D-III

B

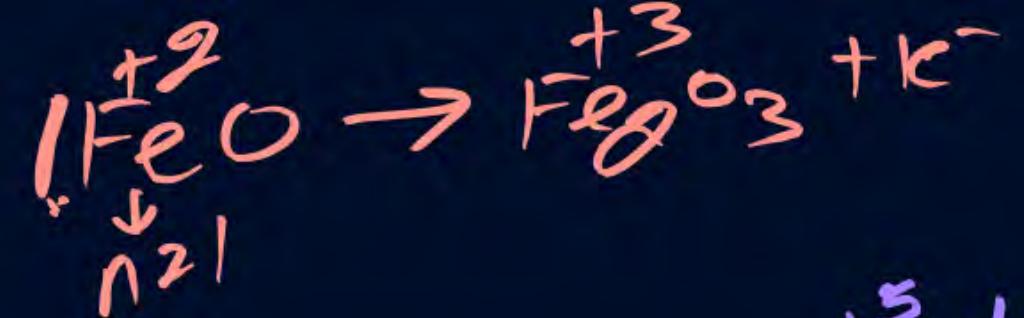
A-III, B-IV, C-I, D-II

C

A-II, B-III, C-I, D-IV

D

A-III, B-IV, C-II, D-I



$$1 \text{ mole} = n F$$

$$1.5 \text{ mole} = 2F \times 1.5 = 3F$$

	List - I (Conversion)		List - II (Number of Faraday required)
(A) $\xrightarrow{\text{II}}$	1 mol of H_2O to O_2 $\text{H}_2\overset{-2}{\text{O}} \rightarrow \overset{0}{\text{O}}_2$	$n=2$	(I) 3F
(B) $\xrightarrow{\text{IV}}$	1 mol of MnO_4^- to Mn^{2+} $\text{Mn}^{2+} \overset{n=5}{\text{MnO}_4^-} \rightarrow \text{Mn}^{2+}$	$n=5$	(II) 2F
(C) $\xrightarrow{\text{I}}$	1.5 mole of Ca from molten CaCl_2 $\text{Ca}^{2+} \overset{n=2}{\text{CaCl}_2} \rightarrow \text{Ca}$	$n=2$	(III) 1F
(D) $\xrightarrow{\text{IV}}$	1 mole of FeO to Fe_2O_3	$n=1$	(IV) 5F

QUESTION [NEET 2013]

-38586



How many grams of cobalt metal will be deposited when a solution of cobalt (II) chloride is electrolyzed with a current of 10 amperes for 109 minutes? (1 faraday = 96,500 C; Atomic mass of Co = 59 u)

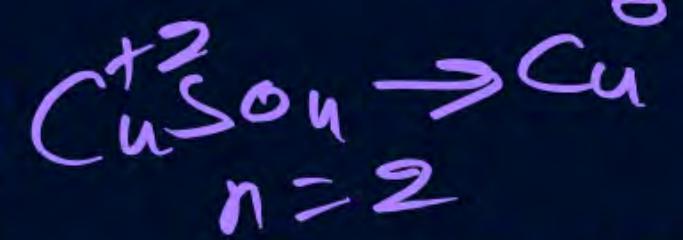
- A 4.0
- B 20.0
- C 40.0
- D 0.66

$$m_{Co} = ? \quad , \quad I = 10 \text{ A} , \quad t = 109 \text{ min.} = 109 \times 60 \quad 3.$$

$$\text{Co}_2^{+2} \xrightarrow{n=2} \text{Co}^0$$

$$M_{Co} = \frac{59 \times 10 \times 109 \times 60}{2 \times 96500} = 20$$

~~98+~~
9



Mass in grams of copper deposited by passing 9.6487 A current through a voltmeter containing copper sulphate solution for 100 seconds is:

(Given: Molar mass of Cu : 63 g mol^{-1} , $1F = 96487 \text{ C}$)

A

3.15 g

$$m_{\text{Cu}} = \frac{31.5}{2 \times 96487 \times 100000}$$

B

0.315 g

$$= 0.315 \text{ g}$$

C

31.5 g

D

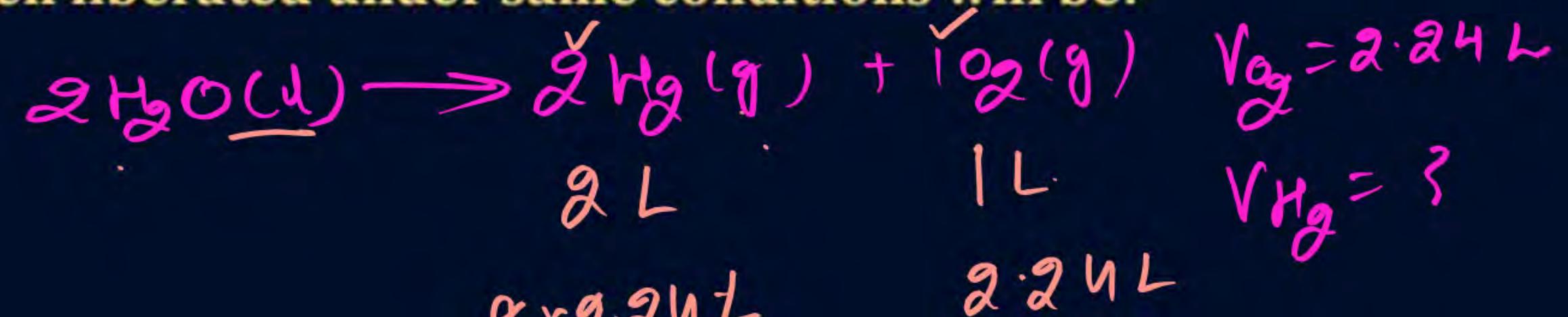
0.0315 g

QUESTION [AIIMS 2008]



During electrolysis of water, the volume of O_2 liberated is 2.24 dm^3 . The volume of hydrogen liberated under same conditions will be:

- A 2.24 dm^3
- B 1.12 dm^3
- C 4.48 dm^3
- D 0.53 dm^3



$$\frac{2 \times 2.24 \text{ L}}{1} = 4.48 \text{ L}$$

QUESTION

Electrolysis can be used to determine atomic masses. A current of 0.550 A deposits 0.55 g of a certain metal in 100 minutes. Calculate the atomic mass of the metal if eq. mass = mol. Mass/3.

A

100

$$\underline{m} = \frac{G \cdot A \cdot M \times I \times t}{n \times F}$$

B

45.0

$$\cancel{0.55} = \frac{\cancel{G} \cdot A \cdot M \times \cancel{0.55} \times \cancel{100} \times \cancel{60}}{3 \times \cancel{96500}}$$

20

C

48.25

$$\cancel{G} \cdot A \cdot M = \frac{965}{20}$$

D

144.75

Number of electrons delivered at cathode during electrolysis of 1 ampere in 60 seconds is:

- A 6×10^{23}
- B 6×10^{20}
- C 3.75×10^{20}
- D 7.48×10^{23}

$$\text{no. of } e^- = n$$

$$I = 1 \text{ A}, t = 60 \text{ sec.}$$

$$q = n e^- = I t$$

$$n \times 1.6 \times 10^{-19} = 1 \times 60$$

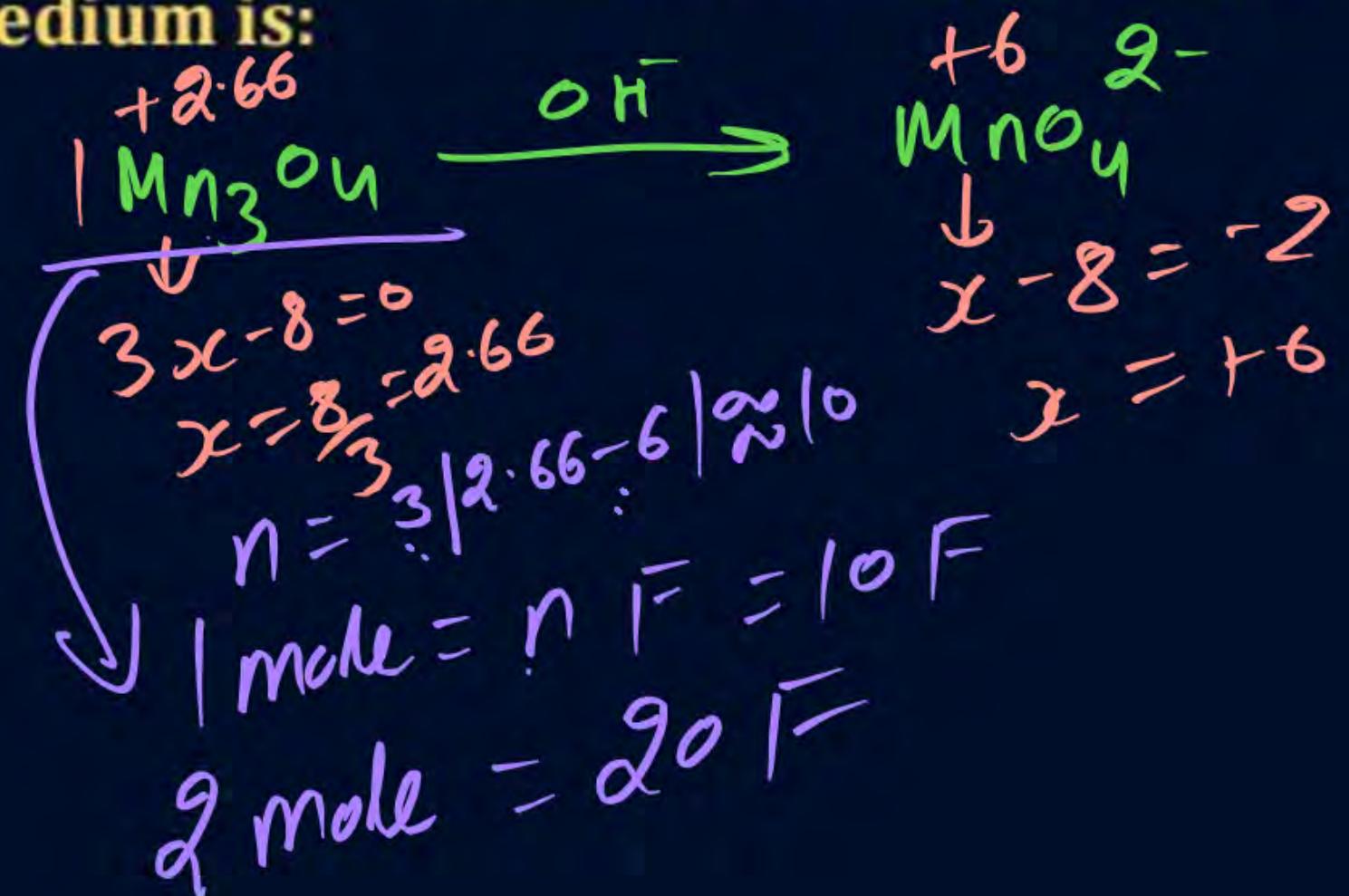
$$n = \frac{60}{1.6}$$

$$= 3.75 \times 10^{20}$$

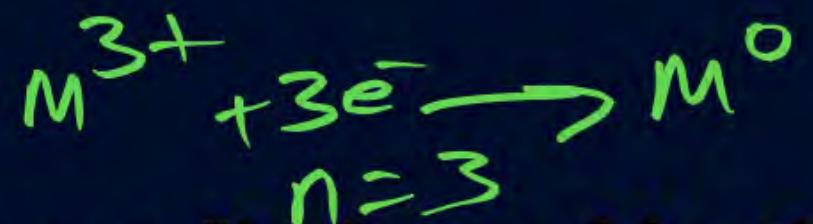
QUESTION

Total charge required for the oxidation of two moles Mn_3O_4 into MnO_4^{2-} in presence of alkaline medium is:

- A 5F
- B 10F
- C 20F
- D None of these



QUESTION



One gm metal M^{3+} was discharged by the passage of 1.81×10^{23} electrons.
What is the atomic weight of metal?

- A 33.35
- B 133.4
- C 66.7
- D None of these

$$m = \frac{G \cdot A \cdot M \cdot n \cdot afe \times e^-}{n \times F}$$

~~$\times 10^3$~~ $\times 10^3$

$$1 = \frac{G \cdot A \cdot M \cdot 1.81 \times 10^{23} \times 1/6 \times 10^{-19}}{3 \times 96500 \times 10}$$

~~$\times 10^3$~~ ≈ 10

$$G \cdot A \cdot M = \frac{3 \times 96500}{181 \times 16} = \frac{28950}{2896}$$

$$\frac{28950}{2896} \times \frac{600}{4800} \times \frac{1}{16}$$

~~$\times 10^3$~~

Q quantity of silver deposit when 1 C of charge is



a) $\times 0.1$ g atom of Ag

b) $\times 1$ chemical eqi of Ag

c) $\times 1$ g. of Ag

d) ~~electrochemical Eq. of silver~~

$$q = 1 \text{ C}$$

$$n = 1$$

$$m = \frac{G \cdot A \cdot M}{a \times F} \times q$$

$$m = 2 \text{ g}$$

$$a = 1$$

$$m = 2 = \frac{108}{\cancel{96500}} \text{ g}$$

$I_P \rightarrow 1 \text{ g eq.}$

Q, 1 F of electricity will liberates $x \times 10^{-1}$ g atom of Copper from CuSO_4 , x is

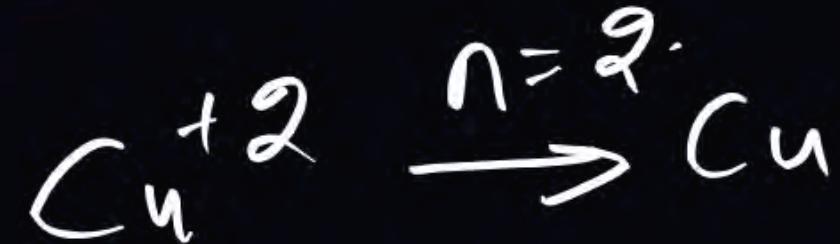
$$\Rightarrow 1 \text{ F} = 1 \text{ g eq.} = \frac{\text{mass}}{\text{eq. mass}} = \frac{\text{mass}}{\text{Gr. A. M.}} \times n =$$

$$I = \text{g. atom} \times n$$

$$\frac{3+5}{3+5} = x \times 10^{-1} \times 2$$

$$x = \frac{10}{2} = 5$$

$$\text{g atom} = \frac{\text{mass}}{\text{Gr. A. M.}}$$



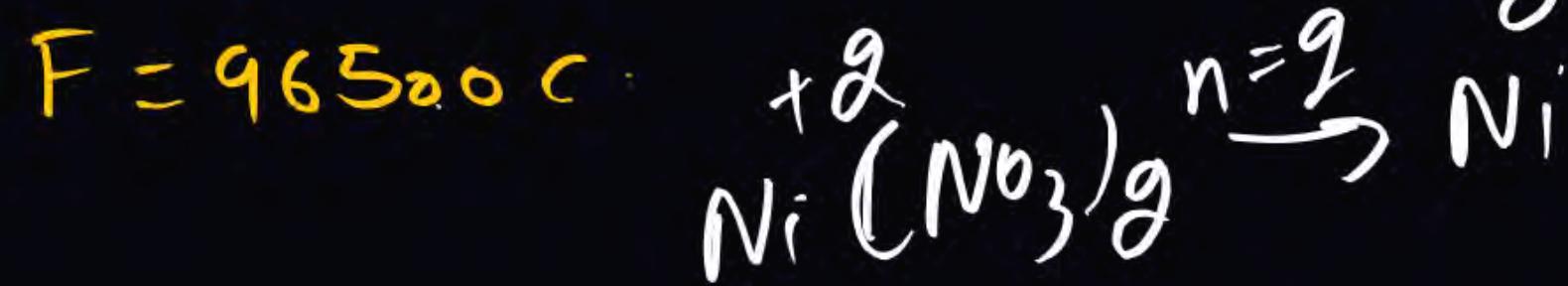
$$F = \frac{63.5}{2} = 31.5 \text{ g}$$

Q Metal surface 100cm^2 area has to be coated with Nickel layer of thickness 0.001mm . Current 2A through soln of $\text{Ni}(\text{NO}_3)_2$

for x sec. find x . Ans

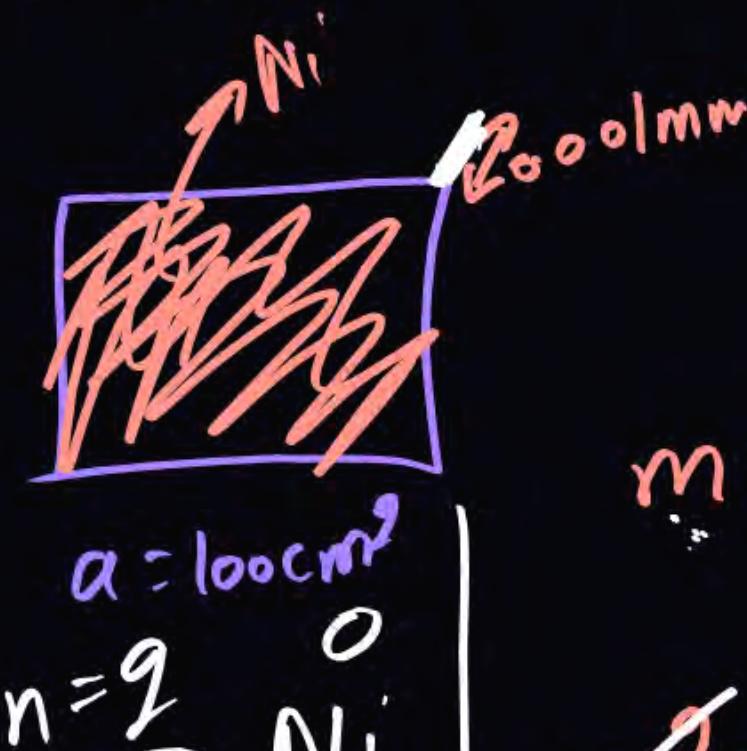
$$\text{density}_{\text{Ni}} = 10\text{g}/\text{ml}$$

$$\text{G.M. of Ni} = 60\text{g/mol}$$



$$V_{\text{Ni}} = \text{area} \times \text{thickness}$$

$$= \frac{100 \times 0.001}{10 \times 100} = 10^{-3}\text{cm}^3$$



$$I = 2\text{A}$$

$$t = x$$

$$m = \frac{\text{G.M.} \times I \times t}{n \times F}$$

~~$$10^{-3} \times 10 = \frac{60 \times 2 \times t}{96500}$$~~

$$t = \frac{965}{6} \approx 161\text{sec.}$$

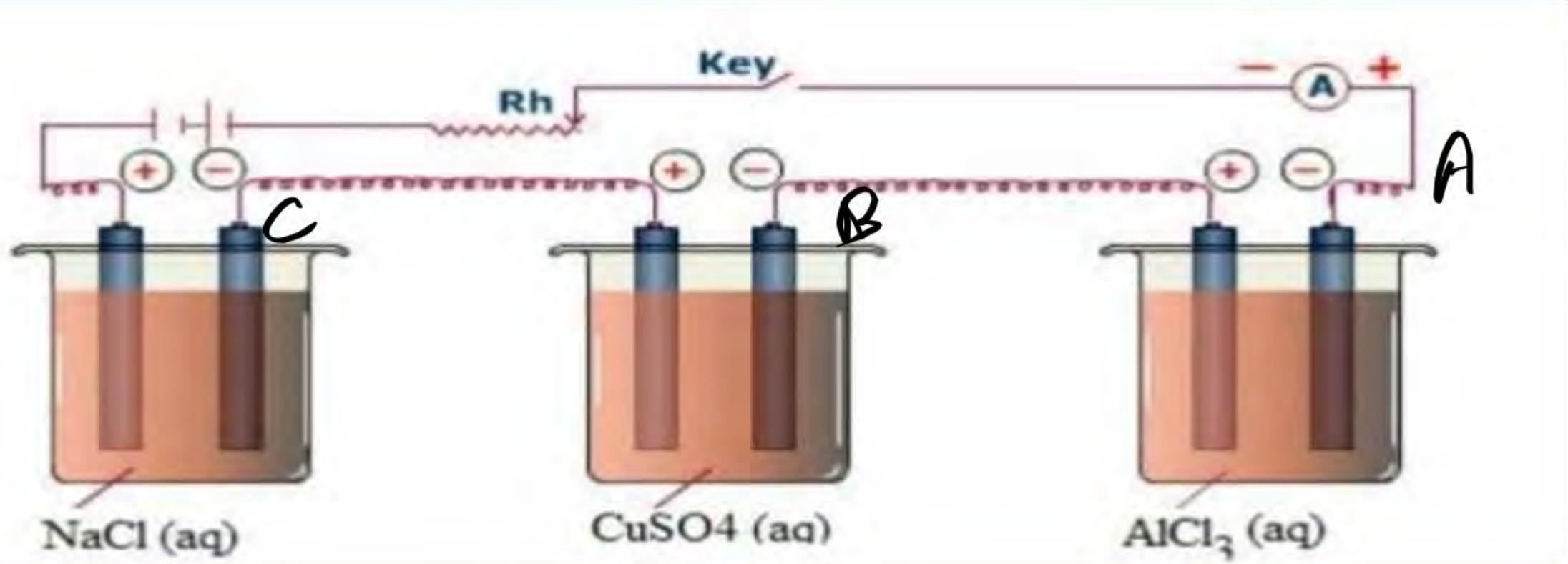


Faraday's Second Law of Electrolysis

2 or more Cells Connected in series \rightarrow Charge same pass \Rightarrow g eq deposit same.

$$g_{eqA} = g_{eqB} = g_{eqC}$$

$$\frac{w_A}{E_A} = \frac{w_B}{E_B} = \frac{w_C}{E_C}$$



QUESTION

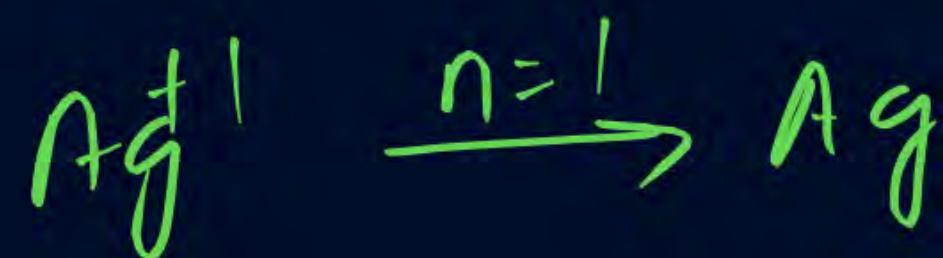
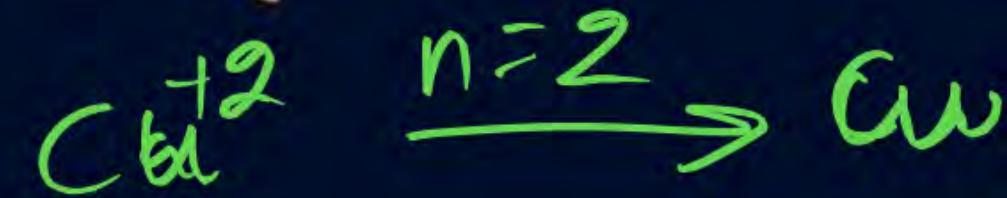


If $\text{CuSO}_4\text{(aq)}$ and $\text{AgNO}_3\text{(aq)}$ are connected in series and mass of Cu deposited is 127 g, find mass of Ag deposited (Atomic mass of Cu = 63.5g; Ag = 108 g)

Aus

$$g \text{ eq Ag} = g \text{ eq Cu}$$

$$\frac{w_{\text{Ag}}}{E_{\text{Ag}}} = \frac{w_{\text{Cu}}}{E_{\text{Cu}}}$$



$$\frac{w_{\text{Ag}}}{108} = \frac{127}{63.5 + 63.5}$$

$$w_{\text{Ag}} = 43.2 \text{ g}$$



Conductors

- Which can conduct electricity
- For Ex.: Cu(s), Ag(s), aq. Na⁺Cl⁻

5 Electrical Conductors



silver



gold



copper



steel



sea water

5 Electrical Insulators



rubber



glass



oil



diamond



dry wood



Type of Conductors

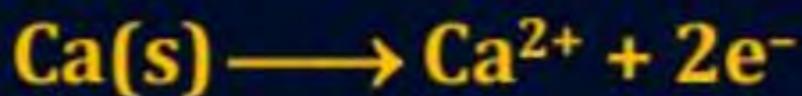
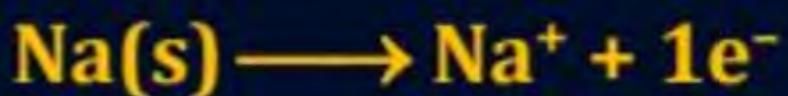
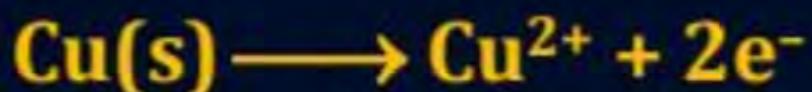
- There are two types
 - (a) Metallic Conductors
 - (b) Electrolytic Conductors



Metallic Conductors

➤ Metals → Cu(s), Ag(s)

Electricity is conducted by electrons

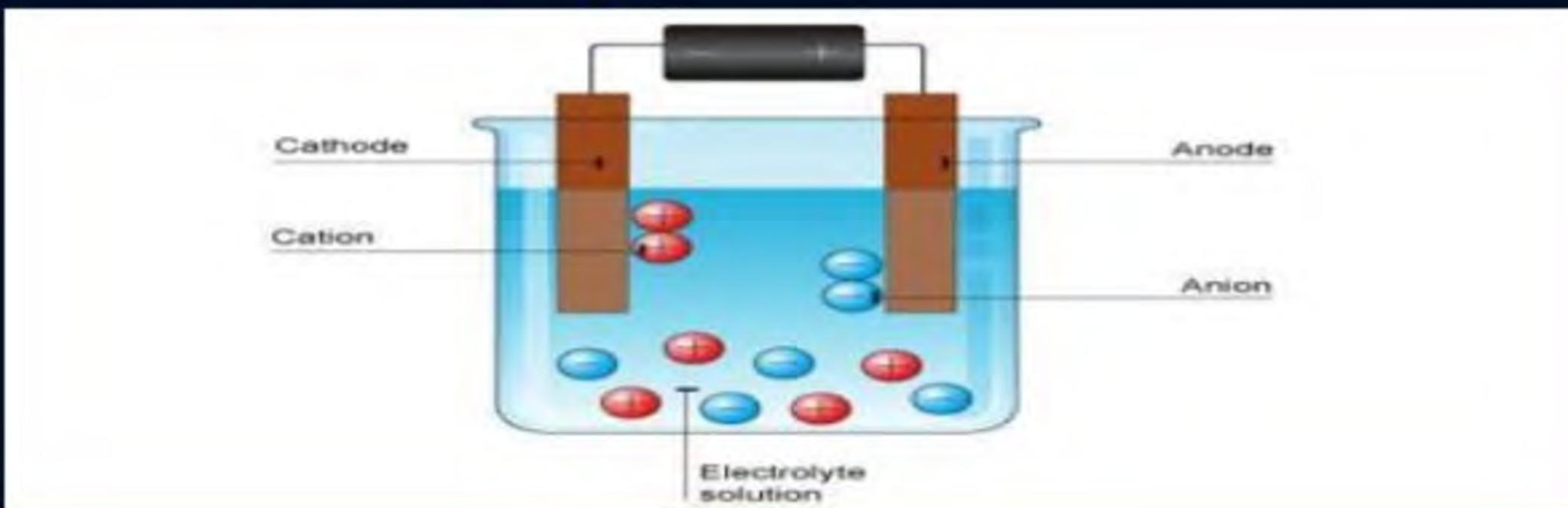




Electrolytic Conductors

- Electrolytes in aq. solution or molten state.
For Ex.: aq. NaCl, aq. Na₂SO₄ etc.

But in solid they do not conduct electricity movement of ions is main reason for conductivity



- NaCl(s) do not conduct electricity as due to strong ionic bond they are not free to move.



Types of Electrolytic Conductors

➤ **Strong Electrolytes:** $\alpha = 1$

Fully dissociate in water

For Ex.: Na^+Cl^- , Na_2SO_4

➤ **Weak Electrolyte:** $\alpha < 1$

They do not dissociate completely in water.

For Ex. CH_3COOH , HCOOH etc

Metallic Conductors	Electrolytic Conductors
1. No mass flow	1. Mass flow
2. Only physical changes occur $\text{Ag} \longrightarrow \text{Ag}^+ + 1\text{e}^-$	2. Both physical and chemical changes occur aq. $\text{Na}^+\text{Cl} \rightarrow$ electrolysis done after electrolysis H_2, Cl_2 released and aq. NaOH .
3. Conducting power $\propto 1/\text{Temperature}$	3. Conducting power $\propto \text{Temperature}$
4. Faraday's laws not followed	4. Faraday's laws are followed



Electrolytic Conductors Factors Affecting Conductivity



Solute-solute Interaction

- If solute-solute interaction is high, they are not free to move
∴ Electrical conductivity is low.



Solvent-solvent Interaction

- If viscosity of solvent is high lesser is the conductivity of solution.
For Ex.: Honey has higher viscosity than water
∴ Electrolytic conductance of solute in Honey is quite less.



Solute-solvent Interaction





Solute-solvent Interaction

Li^+

Na^+

K^+

Rb^+

Cs^+

Hydration max

Top to bottom size increase

\therefore Hydration decreases



Grothus Dopper Mechanism

- **Grothus Dopper Mechanism or Jumping Mechanism:-** Due to jumping mechanism, H^+ has highest ionic mobility followed by OH^- ion's ionic mobility



Concentration

- **Strong Electrolyte:-** As concentration increases number of ions increases and electrical conductance increases

For Ex.: Na^+Cl^-



Concentration

➤ **Weak Electrolyte:-**



Temperature

- **Temperature increase:-** Electrical conductivity increase for electrolytic conductors.

Ionic mobility of which of the following alkali metal ions is lowest when aqueous solution of their salts are put under an electric field?

- A** K
- B** Rb
- C** Li
- D** Na



Resistance (R)

- Unit: Ohm or Ω

g lines



Conductance (G or C)

2 lines



Specific Resistance Or Resistivity (ρ)

$\frac{1}{g}$ Page blank



Specific Conductance Or Conductivity (κ)

↳ Page blank



Molar Conductivity (Λ_M)

- Current of all the ions when 1 mole electrolyte dissolved in V ml of solution.

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Equivalent Conductivity ($\Lambda_{\text{eq.}}$ or Λ_N)

- Current of all ions when 1 gram eq. of electrolyte is dissolved in V. ml of solution.

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2



Magarmach Practice Questions



QUESTION [NEET 2020]

The number of Faradays (F) required to produce 20 g of calcium from molten CaCl_2 (Atomic mass of Ca = 40 g mol^{-1}) is:

- A 2
- B 3
- C 4
- D 1

During the electrolysis of molten sodium chloride, the time required to produce 0.10 mol of chlorine gas using a current of 3 amperes is:

- A 220 minutes
- B 330 minutes
- C 55 minutes
- D 110 minutes

The number of electrons delivered at the cathode during electrolysis by a current of 1 ampere in 60 seconds is: (charge on electron = 1.60×10^{-19} C)

- A 3.75×10^{20}
- B 7.48×10^{23}
- C 6×10^{23}
- D 6×10^{20}

QUESTION-(NEET 2014)

When 0.1 mol MnO_4^{2-} is oxidized, the quantity of electricity required to completely oxidize MnO_4^{2-} to MnO_4^- is:

- A 96500 C
- B 2×96500 C
- C 9650 C
- D 96.50 C

QUESTION – (NEET 2014)

The weight of silver (at wt. = 108) displaced by a quantity of electricity which displaces 5600 mL of O_2 at STP will be:

- A** 5.4 g
- B** 10.8 g
- C** 54.9 g
- D** 108.0 g

QUESTION – (AIIMS 2004)

Time required to deposit one millimole of aluminium metal by the passage of 9.65 amperes through aqueous solution of aluminium ion is:

A 30 s

B 10 s

C 30,000 s

D 10,000 s

QUESTION – (AIIMS 2000)

For reducing one mole of $\text{Cr}_2\text{O}_7^{2-}$ to Cr^{3+} the charge required:

- A** 3×96500 coulomb
- B** 6×96500 coulomb
- C** 0.3 Faradays
- D** 0.6 Faradays

QUESTION – (AIIMS 2018 (E), 27 May)

Time taken to completely (in hrs) decompose 36 g water by passing 3A current is:

A 35.8 hrs

B 40 hrs

C 51.8 hrs

D 22.5 hrs

QUESTION –

How many minutes will it take to plane out 5. g of Cr from a $\text{Cr}_2(\text{SO}_4)_3$ solution using a current of 9.65 A? (Atomic mass : Cr = 52.0)

- A** 200
- B** 50
- C** 100
- D** 103

QUESTION – (JEE MAINS 25th June 2nd Shift-2022)

A solution of $\text{Fe}_2(\text{SO}_4)_3$ is electrolysed for ‘x’ min with a current of 1.5 A to deposit 0.3482 g of Fe. The value of x is _____. (Nearest Integer)

(Given: $1\text{F} = 96500 \text{ C mol}^{-1}$; Atomic mass of Fe = 56 g mol^{-1})

QUESTION – (JEE MAINS 29th June 1st Shift-2022)

A dilute solution of sulphuric acid is electrolysed using a current of 0.10 A for 2 hours to produce hydrogen and oxygen gas. The total volume of gases produced at STP is _____ cm³. (Nearest integer)

[Given: Faraday constant, F = 96500 C mol⁻¹ at STP, molar volume of an ideal gas is 22.7 L mol⁻¹]

QUESTION – (JEE MAINS 20th July 2nd Shift-2022)

Potassium chlorate is prepared by electrolysis of KCl in basic solution as shown by following equation.



A current of x A has to be passed for 10 h to produce 10.0 g of potassium chlorate. The value of x is _____. (Nearest integer)

(Molar mass of KClO_3 = 122.6 g mol⁻¹, F = 96500 C)

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**THANK
YOU**