

Electrochemistry

Sr	Questions	Answers Choice
1	Redox reactions always involve.	A. Gain of protons B. Transfer of electrons C. Loss of neutrons D. Nuclear change
2	In electroplating the object to be plated is connected to	A. Anode B. Cathode C. Both electrodes D. Electrolyte
3	Which element has $E_o = 0.00$ V?	A. H ⁺ B. H ₂ C. SHE D. All of the above
4	In redox reactions, oxidizing agents are	A. reduced B. Oxidized C. Always metals D. Always gases
5	Standard hydrogen electrode is assigned potential of.	A. 1.0 V B. 0.5 V C. 0.0 V D. -1.0 V
6	The more positive the standard reduction potential	A. The stronger the reducing agent B. The weaker the oxidizing agent C. The stronger the oxidizing agent D. No effect
7	If 1 Faraday of electricity is passed the mass deposited equals.	A. 1 gram equivalent B. 1 gram C. 1 mole D. 1 atm
8	The reaction at the cathode is always	A. Oxidation B. Neutral C. Reduction D. Ionization
9	Electrons in a galvanic cell flow from	A. Anode to cathode B. Cathode to anode C. Salt bridge to cathode D. Electrolyte to anode
10	One Faraday is equal to	A. 1 C B. 96500 C C. 1 J D. 96500 J
11	The process of coating a metal with zinc is called.	A. Alloying B. Galvanization C. Electrorefining D. Electroplating
12	What is the unit of cell potential.	A. ampere B. Volt C. Ohm D. Farad
13	Electrochemical series helps in predicting.	A. Rate of reaction B. Type of bond C. Direction of redox reactions D. Heat released
14	Down cell is used for extraction of.	A. Zinc B. Iron C. Sodium D. Aluminum
15	A more negative E_o value means the electrode	A. Is a strong oxidizing agent B. Is a strong reducing agent C. Is neutral D. Has high electronegativity

16	Which of the following will react with HCl to liberate H ₂ gas	A. Ag B. Mg C. Au D. Cu
17	Which component maintains electrical neutrality in an electrochemical cell	A. Salt bridge B. Voltmeter C. Electrolyte D. Electrodes
18	The principle of measuring DO by Winkler's Method is based on.	A. Iodimetry B. Iodometry C. Acid Base titration D. Complexometry
19	The activity series of metals arranges metals in order of their.	A. Atomic mass B. Density C. Ease of oxidation D. Ease of reduction
20	The process of purifying copper using electricity is called.	A. Electrolysis B. Electroplating C. Electrowinning D. Electrogravimetry