

Electrochemistry

Sr	Questions	Answers Choice
1	In redox reactions, oxidizing agents are	A. reduced B. Oxidized C. Always metals D. Always gases
2	Electrolysis is the process of	A. Chemical energy into electrical B. Electrical energy into chemical C. Heat energy into mechanical D. Mechanical energy into chemical
3	Electrolyte in electroplating of silver	A. AgNO ₃ B. NaCl C. CuSO ₄ D. HNO ₃
4	Which of the following will react with HCl to liberate H ₂ gas	A. Ag B. Mg C. Au D. Cu
5	The cathode in an electrolytic cell is.	A. Positive electrode B. Negative electrode C. Neutral electrode D. None
6	Electrochemical equivalent is.	A. Mass per mole B. Mass per coulomb C. Charge per second D. Current per mass
7	Oxidation number of oxygen in H ₂ O	A. 1 B. -2 C. 0 D. +1
8	The salt bridge allows transfer ofin Zn -Cu voltaic cell	A. SO ₄ ions B. Zn ²⁺ ions C. Both D. None of these
9	Electrolysis is used in the extraction of	A. Silver B. Gold C. Aluminum D. Mercury
10	The process of purifying copper using electricity is called.	A. Electrolysis B. Electroplating C. Electrowinning D. Electrogravimetry
11	If 1 Faraday of electricity is passed the mass deposited equals.	A. 1 gram equivalent B. 1 gram C. 1 mole D. 1 atm
12	Which of the following elements cannot displace hydrogen from acid.	A. Zn B. Cu C. Al D. Fe
13	One Faraday is equal to	A. 1 C B. 96500 C C. 1 J D. 96500 J
14	If Zn -Cu galvanic cell works ideally after complete discharge, both compartments will have	A. CuSO ₄ Solution B. Zn SO ₄ Solution C. Cu ions D. Zn Solid
15	The metal deposited at cathode during electrolysis of NaCl is.	A. Cl ₂ B. Na C. H ₂ D. Cu

16	Standard electrode potential is measured under	A. 100 oC and 1 atm B. 0 oC and 1 M concentration C. 25 oC and 1 M concentration D. 100 oC and 1 M concentration
17	Which element has $E_o = 0.00 \text{ V}$?	A. H^+ B. H_2 C. SHE D. All of the above
18	In the Hall Heroult process, aluminum is obtained by	A. Chemical reaction B. Thermal decomposition C. Electrolysis of alumina D. Roasting and leaching
19	The oxidation number of sulfur in H_2SO_4 is	A. +2 B. +4 C. +6 D. +8
20	In electrolysis, reduction always occurs at	A. Anode B. Cathode C. Salt bridge D. Electrolyte