Chemistry Theory Paper I - Physical Chemistry Semester IV

Item Text	Option Text 1	Option Text 2	Option Text 3	Option Text 4
In an electrolytic cell the electrode at which the electrons enter the solution is called the; the chemical change that occurs at this electrode is called	anode, oxidation	anode, reduction	cathode, oxidation	cathode, reduction
Electric energy has unit	Volt- Coulombs	Volts	Coulombs	Faraday
Weston saturate standard cell at 25 degree Celsius provides	6.023 volts	1.872 volts	1.01807 volts	0.0591 volts
In de-electronation process takes place.	oxidation of metal atom	reduction of metal atom	both oxidation and reduction	deposition of electron
In a Daniell cell	the chemical energy liberate during redox reaction is converted to electrical energy.	the electric energy of the cell is converted to chemical energy.	the energy of cell is utilised in conduction of the redox reaction.	the potential energy of the cell is converted into electric energy.
A galvanic cell has electrical potential 1.1 v. If an opposing potential of the 1.1 v is applied to this cell, what will happen to the cell reaction and current flowing through the cell?	The reaction stops and no current flows through the cell.	The reaction is continuous but current flows in opposite direction.	The concentration of reactants becomes unity and current flows from cathode to anode.	The cell does not function as a galvanic cell and zinc is deposited on zinc plates
The internal reference electrode in glass electrode is	SCE.	Ag-Agcl	glass membrane	mercury
Net electric work is given by	-nFE	ΔΗ	nFE	ΔG

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A standard hydrogen electrode has a zero potential because	Hydrogen	Hydrogen	the electrode	Hydrogen is
	can be most	has only one	potential is	the lightest
	easily	electron	assumed to	element
	oxidised		be zero	
In a galvanic cell , the salt bridge	participate	stop the	is necessary	ensure mixing
	chemically in	diffusion of	for the	of the two
	the cell	ions from	occurrence of	electrolytic
	reaction	one	the cell	solutions
		electrode to	reaction	
		another		
The difference between the electrode potentials of two electrodes when no	cell potential	cell emf	potential	cell voltage
current is drawn through the cell is called			difference	
Daniell cell is	Secondary	irreversible	primary	primary
	cell	cell	irreversible	reversible cell
			cell	
In Daniell cell, reduction occurs at the	anode	Zinc rod	negative	positive
			electrode	electrode
In Nernst equation the constant 0.059 at 298k represents the value of	RT/nF	RT/F	2.303RT/nF	2.303RT/F
The concept of electrode potential is explained on the basis of	Arrhenius	Ostwald's	Nernst's	Faraday's law
	theory	theory	theory	
The electrochemical cell stops working after sometime because	Electrode	Electrode	One of the	The cell
	potential of	potential of	electrode is	reaction gets
	both the	both the	eaten away	reversed
	electrodes	electrodes		
	becomes	become		
	zero	equal		
In a galvanic cell the electron flow from	Anode to	Cathode to	Anode to	Cathode to
	cathode	anode	cathode	anode
	through the	through the	through the	through the
	solution	solution	external	external
			circuit	circuit

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	Cathode to	Cathode to	Cathode to	Anode to
In the electrolyte cell, flow of electron is from	anode in	anode	anode	cathode
	solution	through	through	through
		external	internal	internal
		supply	supply	supply
In the standard notation for a voltaic cell, the double vertical line " "	a phase	gas electrode	a wire (metal)	a salt bridge
represents:	boundary		connection	