

CHEMISTRY-11	Chapter#10(Complete) Test-6		
	Name:	Class:	ID:
Date: / /	Marks Total: 40	Marks Obtained:	
Time Allowed: 75 Min.			

Maximum Marks: 08

(OBJECTIVE TYPE)

Time Allowed: 10 Min.

NOTE: Tick The Correct Option:

- An oxidizing agent:**
 - Is oxidized
 - Gains electrons
 - Neither gains nor loses electrons
 - Loses electrons
- A typical car battery of 12 volts has number of cells:**
 - 4
 - 3
 - 6
 - 2
- The cell concerned with the conversion of chemical energy into electrical energy is called:**
 - Electrolytic cell
 - Galvanic cell
 - Voltaic cell
 - Both 'b' & 'c'
- Which element can never show positive oxidation state?**
 - N
 - O
 - F
 - Both 'b' & 'c'
- Material is also transported in:**
 - Electronic conduction
 - Metallic conduction
 - Electrolytic conduction
 - Both 'a' & 'b'
- The potential set up between an electrode and 1 M solution of its ions, at 298 K, is called:**
 - Single electrode potential
 - Standard electrode potential
 - Oxidation potential
 - All
- Which reaction is energetically not feasible?**
 - $\text{Cu}^{2+} + \text{Zn} \rightarrow \text{Cu} + \text{Zn}^{2+}$
 - $\text{Al} + \text{Fe}^{3+} \rightarrow \text{Al}^{3+} + \text{Fe}$
 - $\text{Hg}^{2+} + \text{Mg} \rightarrow \text{Hg} + \text{Mg}^{2+}$
 - $\text{Li}^+ + \text{Na} \rightarrow \text{Li} + \text{Na}^+$
- Alkaline battery is a type of _____ cell.**
 - Primary
 - Secondary
 - Tertiary
 - Electrolytic

Maximum Marks: 32

(SUBJECTIVE TYPE)

Time Allowed: 65 Min.

SECTION-I

Q.2: Give brief answers to the following questions:

(16)

- Define oxidation number. What is oxidation number of elements in free state?
- Calculate the oxidation number of Phosphorus in H_3PO_4 .
- Give equations explaining the extraction of sodium by Down's cell?
- How is caustic soda obtained in Nelson cell?
- How can copper be purified electrolytically?
- What happens when a metal electrode is dipped in the solution of its own ions?
- Fe can displace Cu from CuSO_4 but Zn does not displace Mg from MgSO_4 solution. Why?
- Write redox reactions which occur during discharging of lead accumulator battery.

- ix. What is NICAD? Write electrode reactions occurring in it.
x. What are fuel cells? How do they generate electrical energy?

SECTION-II

NOTE: Attempt All Questions:

(12)

- Q.3: Describe the electrolysis of molten sodium chloride and a concentrated solution of sodium chloride.
- Q.4: Describe a galvanic cell, explaining the function of electrodes and the salt bridge.
- Q.5: What is standard hydrogen electrode (SHE)? How is it used to measure the electrode potential of zinc?