

<b>CHEMISTRY-11</b>	<b>Chapter#10 (Complete) Test-5</b>		
	Name:	Class:	ID:
Date: / /	<b>Marks Total: 40</b>	<b>Marks Obtained:</b>	
Time Allowed: 75 Min.			

Maximum Marks: 08

### (OBJECTIVE TYPE)

Time Allowed: 10 Min.

**NOTE:** Tick The Correct Option:

- The cathode reaction in the electrolysis of dil.  $H_2SO_4$  with Pt electrodes is:
  - Reduction
  - Oxidation
  - Both oxidation and reduction
  - Neither oxidation or reduction
- In which of the followings, oxidation number of Cr is not +6:
  - $Cr_2O_7^{2-}$
  - $K_2Cr_2O_7$
  - $Cr_2(SO_4)_3$
  - $K_2CrO_4$
- The best reducing agent is:
  - $F^{-1}$
  - $Cl^{-1}$
  - $Br^{-1}$
  - $I^{-1}$
- When an ionic compound is fused or dissolved in water, it splits into ions, this is called:
  - Ionization
  - Electrolysis
  - Electrolytic conduction
  - All
- Reduction occurs at:
  - Anode
  - Cathode
  - Both 'a' & 'b'
  - None
- Hall-Beroult process is used to extract aluminium from:
  - Bauxite
  - Cryolite
  - Corundum
  - All
- Which one is non-rechargeable?
  - Alkaline battery
  - Lead accumulator
  - NICAD
  - Fuel cell
- In fuel cells, cathode consists of:
  - $H_2$
  - $O_2$
  - $NH_3$
  - $CH_4$

Maximum Marks: 32

### (SUBJECTIVE TYPE)

Time Allowed: 65 Min.

#### SECTION-I

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

(20)

- Find out the oxidation state of Cr in: i)  $K_2Cr_2O_7$  ii)  $K_2CrO_4$ .
- Differentiate between oxidation and reduction.
- Explain the difference between ionization and electrolysis.
- Give equations explaining the extraction of sodium by Down's cell?
- A salt bridge maintains the electrical neutrality in the cell. Explain.
- What happens when a metal electrode is dipped in the solution of its own ions?
- SHE acts as cathode when connected with Zn electrode while as anode when connected with Cu electrode. Why?
- The standard oxidation potential of Zn is 0.76 V and its reduction potential is -0.76 V. Justify.
- Lead accumulator is a chargeable battery. Comment on it.
- What are the advantages of fuel cells?

#### SECTION-II

**NOTE:** Attempt All Questions:

(12)

Q.3: State rules for assigning oxidation number of elements with examples.

Q.4: What is electrochemical series? Give its any four applications.

Q.5: Write a note on Nickel-Cadmium cell.