CHEMISTRY-11	Chapter#10-First Half (10.1-10.2) Test-1		
	Name:	Class:	ID:
Date: / /	Marks Total: 25	Marks Obtained:	
Time Allowed: 40 Min.			

Maximum Marks: 09 **(OBJECTIVE TYPE)** Time Allowed: 10 Min.

NOTE: Tick The Correct Option:

1. **If the salt bridge is not used between two half cells, then the voltage:**
   (a) Decreases rapidly (b) Decreases slowly (c) Does not change (d) Drops to zero
2. **The oxidation number of nitrogen in HNO_3 is:**
   (a) +3 (b) -3 (c) -5 (d) +5
3. **When one metal is deposited on the surface of the other by the process of electrical current, it is called:**
   (a) Electrolysis (b) Electroplating
   (c) Electrolytic refining (d) Electrolytic
4. **Spontaneous redox reaction takes place in:**
   (a) Electrolytic cell (b) Galvanic cell (c) Voltaic cell (d) Both 'b' & 'c'
5. **In which compound, Mn is in maximum oxidation state?**
   (a) $KMnO_4$ (b) K_2MnO_4 (c) MnO_2 (d) Mn_2O_3
6. **Select the one which is oxidation half reaction.**
   (a) $Cl^- \rightarrow Cl_2$ (b) $MnO_4^- \rightarrow Mn^{2+}$ (c) $MnO_4^- \rightarrow MnO_2$ (d) $NO_3^{1-} \rightarrow 2NO_2$
7. **Electricity can be conducted through ions in:**
   (a) Fused state only (b) Both fused and solution states
   (c) All fused, solution and solid states (d) None of the above
8. **Extraction of sodium by the electrolysis of fused sodium chloride is carried out in:**
   (a) Down's cell (b) Nelson's cell
   (c) Castner-Kelner cell (d) Hg-cell
9. **Chlorine can be obtained from:**
   (a) Down's cell (b) Nelson's cell
   (c) Hall-Beroult process (d) Both 'a' & 'b'

Maximum Marks: 16 **(SUBJECTIVE TYPE)** Time Allowed: 30 Min.

SECTION-I

Q.2: Give brief answers to the following questions: **(12)**

i. Define oxidation number. What is oxidation number of elements in free state?
ii. Calculate the oxidation number of Sulphur in SO_4^{2-}.
iii. Differentiate between metallic conduction and electrolytic conduction.
iv. Differentiate between electrolytic cell and Galvanic cell.
v. Give equations explaining the extraction of sodium by Down's cell?
vi. How can copper be purified electrolytically?

SECTION-II

NOTE: Attempt All Questions: **(04)**

Q.3: Describe a galvanic cell, explaining the function of electrodes and the salt bridge.