Name:	Subject: Chemistry	Class: 12 <sup>th</sup>	Time: 60 minutes	Total Marks:	30
Chapter No.2	MJDexpert.com			Obtained marks	

**Note:** Please attempt any 8 short questions from Question 2. Also, attempt both parts (a and b) of Question 3. Cutting and removal of any content is strictly prohibited.

		Ob.	jective-Section					
	Q. 1 Encirc	le the correct answer	by filling the appropriate circle.	(8x1=8)				
1.	Beryllium reacts with sodium hydroxide to form							
	(A) BeO + NaH	(B) $Na_2BeO_2 + F$	$H_2$ (C) BeO <sub>2</sub> + $H_2$	(D) Be $(OH)_2 + Na$				
2.	The oxides of	ne oxides of beryllium are						
	(A) Acidic	(B) Basic	(C) Ionic	(D) Amphoteric				
<b>3.</b>	Which of the following does not belong to alkaline earth metals?							
	(A) Be	(B) Ra	(C) Ba	(D) Rn				
4.	Which of the following do not form oxide of Nitrogen on heating?							
	(A) LiNO <sub>3</sub>	(B) NaNO₃	(C) Ca (NO₃)	(D) Mg $(NO_3)_2$				
<b>5.</b>	Which gas is	evolved at cathode durir	ng the electrolysis of brine in diaphrag	s of brine in diaphragm cell?				
	(A) H <sub>2</sub>	(B) Na	(C) Cl <sub>2</sub>	(D) O <sub>2</sub>				
<b>6.</b>	Natron has the chemical formula							
	(A) NaNO₃	(B) KNO₃	(C) $Na_2CO_3.H_2O$	(D) CaCO <sub>3</sub>				
7.	The element of	he element deposited at Cathode during electrolysis of brine in Diaphragm Cell is:						
	(A) Cl <sub>2</sub>	(B) Na	(C) O <sub>2</sub>	(D) H <sub>2</sub>				
8.	In Nelson's cell for the production of NaOH cathode is made up of							
	(a) Mercury	(b) Graphite	(e) Steel vessel lined inside with asbes	stos (d) Iron				

## **Subjective-Section**

## Q.2 Write short answers of any eight (8) of the following questions: (8x2=16)

- 1. Write formulas of (i) Colemanite
  - (ii) Cryolite
- 2. What is the milk of magnesia? Where it is used?
- 3. What happens when we heat Li<sub>2</sub>CO<sub>3</sub> and CaCO<sub>3</sub> separately?
- 4. Discuss in which respect KO<sub>2</sub> can be used by mountaineers.
- 5. Why the aqueous solution of Na<sub>2</sub>CO<sub>3</sub> is alkaline?
- 6. Give two advantages of Down's cell process.
- 7. How lime Mortar is prepared?
- What is the chemical nature of lime water and milk of magnesia?
- 9. Why lime is added to acidic soil?

## Q.No.3 Long Question:

(4+4=8)

- a) Write a note on the peculiar behavior of Beryllium
- b) Describe the two problems involved in the manufacture of caustic soda by Nelson cell and how these problems were solved?