					DATE:				
Quality Checkers		XI Elements o	-SCl : Chemistry of Group 1 and Group 2,		TIME: 1 hour 30 minutes				
Qu	ality Checkers				MARKS: 25				
Only way to fulfill your dreams			S	EAT NO:					
Note:	Note:- 1. All Questions are compulsory.								
O.1 Select and write the correct answer. (4)									
1.	Choose the ir	ncorrect statement							
	A) Alkaline ea reducing age	arth metals are good ents	B) Ber resembles aluminiun though it belongs to a differ	n closely rent grou	in its properties p				
	C) Beryllium than magnes	is more electropositive sium	ive D) The electronegativities of alkaline earth metals decreated with atomic numbers						
2.	In the elemer	nts of group 1, the last el	ectron enters intos	subshell.					
	A) np	B) ns							
	C) nd	D) None of the above							
3.	The most rea	ctive elements is							
	A) Be C) Sr	B) Ba D) Mg							
1		2,8							
4.	4. Choose the correct option with respect to electropositivity. (A) $C_{2} > B_{2} > L_{2} = B$ , $B_{2} > M_{2} > C_{2} > S_{2}$								
	C) Cs < Rb <	Na < Li D) Be < Mg < $($	La < Sr						
Q.2 Aı	nswer the follo	owing.			(3				
1.	1. Dihydrogen reactions take place at high temperature? Justify.								
2.	What is the oxidation state of Na in $Na_2O_2$ ?								
3.	What happer	ns when H <sub>2</sub> O <sub>2</sub> mixes wit	h water?						
Section B Attempt any Four									
Q.3	Compounds c	of group 1 and 2 element	s are diamagnetic. Explain.		(2				
Q.4	Comment on	the trends in properties	of elements of group 1 and 2	2.	(2				
Q.5	Write the commercial method of preparation of caustic soda.				(2				
Q.6	What happens when sulphuric acid undergoes electrolysis?				(2				
Q.7	What happen	s when water gas reacts	with olefins?		(2				
Q.8	Write the forn	nulae of compounds of h	nydrogen formed with sodiur	n and ch	lorine. (2				
Section C Attempt any Two									

Q.9	Write balanced chemical equation – CO <sub>2</sub> is passed into concentrated solution of NaCl, which is					
	saturated with NH <sub>3</sub>					

Q.10	Explain the preparation of	nydrogen peroxide from 2-et	hvlanthraguinol. (	3)
	Explain the preparation of	ly al ogen per oxide nom 2 et	(	- /

Q.11 Outline the industrial production of dihydrogen from steam. Also write the chemical reaction (3) involved.

## Section D Attempt any One

(4)

- Q.12 Write uses of dihydrogen.
- Q.13 Explain the observed values 496 kJ/mol and 737 kJ/mol of the first ionization enthalpies of Na (4) and Mg, respectively.