# **S-BLOCK ELEMENTS**

1.	The reaction w	[ <b>M-2012</b> ]					
	1) Al +NaOH						
	2) C + NaOH						
	3) $F_2 + NaOH$	$(Conc) \rightarrow$					
	4) Zn +NaOH	[(aq)→					
2. which metal ions play an important role in muscle contraction?					[M 2011]		
	1) K <sup>+</sup>	2) Na <sup>+</sup>	3) Mg <sup>+2</sup>	4) Ca <sup>+2</sup>			
3.	which of the fo	ollowing compound	l has the lowest	melting point?	[AIPMT 2011]		
	1) CaCl <sub>2</sub>	2) CaBr <sub>2</sub>	3) CaI <sub>2</sub>	4) CaF <sub>2</sub>			
4.	which of the f	collowing statement	t is incorrect?		[AIPMT 2011]		
	1) pure sodium	metal dissolves in li	iquid ammonia to	give blue solution.			
,	2) Aluminium	reacts with excess of	of NaOH to give A	Al(OH) <sub>3</sub>			
	3) NaOH reacts	with glass to give s	odium silicate.				
4	4) NaHCO <sub>3</sub> on heating gives Na <sub>2</sub> CO <sub>3</sub>						
5.	The alkali hali	ide that is soluble i	n Pyridine is		[PMT 2011]		
	1) NaCl	2) LiCl	3) KCl	4) CsI			
6.	6. propertity of alkaline earth metals that increases with their atomic number						
					[AIPMT2010]		
	1) solubility	of their hydroxides	in water				
	2) solubility of their sulphates in water						
	3) ionization energy						
	4) electro neg	gativity					
7. which of the following alkaline earth metal sulphate has hydration enthalpy higher than lattice							
enthalpy?							
					[AIPMT2010]		
	1) CaSO <sub>4</sub>	2) BeSO <sub>4</sub>	3) BaSO <sub>4</sub>	4) SrSO <sub>4</sub>			

<b>8.</b> 7	The best water	soluble hydroxide is			[PMT2008]	
	Ca(OH) <sub>2</sub>	2) Mg(OH) <sub>2</sub>	3) Ba(OH) <sub>2</sub>	4) Sr	(OH) <sub>2</sub>	
9.	sodium hydrid	e when dissolved in v	vater produces		[DPMT 2008]	
1)	acidic solution	2) basic solution	3) neutral solut	ion 4) car	nnot be predicted	
10. ч	which of the fol	lowing has highest h		[AFMC 2009]		
	1) BaCl <sub>2</sub>	2) SrCl <sub>2</sub>	3) MgCl <sub>2</sub>	4) Ca	ICl <sub>2</sub>	
11.	Glauber salt is	1			[AFMC 2007]	
12.7 13.	The molecular 1) KNO <sub>3</sub> which compou 1) LiF	2) MgSO <sub>4</sub> , <b>formula of Salt p</b> 2) NaNO <sub>3</sub> <b>nd is highly covalent</b> 2)LiCl	etre is 3) NaCl ? 3) LiBr	4) Na <sub>2</sub> SO <sub>4</sub> 4)LiI	[PMT2007] [AFMC2007]	
		netals Caesium is the		ecause	[AFMC2008]	
	, <b>1</b>	shell is nearest to the				
	-	electron in the valence	snen			
,	it is the heavies		ly bound that the	outor most ala	atron of the other	
4)	alkali metals	electron is most loose	ery bound that the	outer most ele	ctron of the other	
15			form V. V. oba	who CO - and	forms NoCO and	
15.		ited in air at 300°C to he following is <u>Y</u> ?	0 101111 <u>A</u> . <u>A</u> adse	orbs CO <sub>2</sub> and	(M 2005)	
	<u>1</u> ) H <sub>2</sub>	$\begin{array}{c} 1 \text{ only mg is } \underline{1} \text{ .} \\ 2 \text{ O}_2 \end{array}$	3) H <sub>2</sub> 0	$D_2$	4) O <sub>3</sub>	
16	Which of the	following carbonster	doomrooo	dily of low for	nn anaturnas?	
16.	which of the	following carbonates	decomposes rea	ully at low ten	(2007 M)	
	1) Na <sub>2</sub> CO <sub>3</sub>	2) K <sub>2</sub> CO <sub>3</sub>	3) Li <sub>2</sub>	CO <sub>3</sub>	$(2007 \text{ M})$ $4) \text{ Rb}_2\text{CO}_3$	
17. 18.	1) NaHCO <sub>3</sub> +	following pair canno NaOH 2) Na <sub>2</sub> CO <sub>3</sub> - following is not corre	+ NaOH $3$ ) Na <sub>2</sub>		(E 2007) 4) NaHCO <sub>3</sub> + NaCl (2007 M)	
		nethod of NaOH prepa	-			
	2) With hot and concentrated NaOH, Cl <sub>2</sub> gas gives NaOCl.					
	,	s with white phosphotsed in rayon industry.	rus giving phosph	ine.		

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<ul> <li>i) Superoxides are</li> <li>ii) The basic streng</li> <li>iii) The conductivities</li> <li>iv) The basic nature</li> <li>1) (i), (ii) and (iii) of</li> <li>3) (ii), (iii) and (iv)</li> </ul> 20. The correct order	paramagnetic in nature ths of hydroxides increative ty of chlorides in their e of carbonates in aque only only of stability for the fo	e. eases dow aqueous s cous solut: 2) (i 4) (i <b>llowing s</b>	n the group. olutions decrease ions is due to cat i) and (ii) only iii) and (iv) only uperoxides is					
1) KO <u>2</u> >KOO <u>2</u> >C		K025)C	зо <u>/</u> >ко <u>/</u> >ко	24) KO2>CSO2>KOO2				
	21. Which of the following reactions does not liberate gaseous product ? (M-2006)							
1) $AlCl_3 + NaOH \rightarrow$								
2) NaOH +P (white)	$+H_2O \rightarrow$							
3) A $l$ +NaOH $\rightarrow$ 4) Zn + NaOH $\rightarrow$								
22. Consider the following reactions : I. $Al+NaOH+H_2O \rightarrow$ II. $F_2 + NaOH(conc.) \rightarrow$ III. $NaOH + P$ (white) + $H_2O \rightarrow$ (M-2006)								
	eactions which give g	aseous pi	roduct is :					
1) I, II and III 3) Only I and III	<ul><li>2) Only I and II</li><li>4) Only II and III</li></ul>							
23. In the hardening st		s, the com	pound formed i	s (M-2004)				
1) CaSO <sub>4</sub>	2) Orthorhomb		-					
3) CaSO <sub>4</sub> .H <sub>2</sub> O	4) Monoclinic C	•	_					
24. Epsom salt is		-		(AFMC2006)				
1) MgSO <sub>4</sub> . 7H <sub>2</sub> O	2) CaSO <sub>4</sub> .H <sub>2</sub> O	3) MgS	04. 2H2O4) Bas					
25. Match the following (M-2010)								
List - I	List - II							
A) Dolomite	I) CaCO <sub>3</sub>							
B) Fluorapatite	II) 2BeO. SiO <sub>2</sub>							
C) Phenacite	III) SrSO <sub>4</sub>							
D) Celestite	IV) CaCO3. MgCO	3						
	V) 3Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> .CaF	72						
The correct answer is								
ABCD	A B	С	D					
1) IVV III II	2) V IV	′ II	III					
3) IVV I II	4) IV V	II	III					

26. Solvay process is	used in the manufact	(E-2010)					
1) K <sub>2</sub> CO <sub>3</sub>	2) KHCO <sub>3</sub>	3) Na <sub>2</sub> CO <sub>3</sub>	4) CaCl <sub>2</sub>				
27. What are the products formed when $Li_2CO_3$ undergoes decomposition? (E-2002)							
1) Li <sub>2</sub> O <sub>2</sub> +CO	2) Li <sub>2</sub> O + CO	3) Li <sub>2</sub> O + CO <sub>2</sub>	4) LiO <sub>2</sub> +CO				
28.NaNO <sub>3</sub> on heating	gives						
			[JIPMER200				
1) O <sub>2</sub>	2) NO <sub>2</sub>	3) $O_2 + NO_2$	4)none of these	e			
29. Magnlium contair	18		[AFMC2006]				
1) Mg+Al	2)Mg+Mn	3) Mg+Fe	4) Mg+Cu				
<b>30.</b> Backing powder		, ,					
			[AFMC2005]				
1)NaHCO <sub>3</sub>	$2)Na_2CO_3$	3)NaHCO <sub>3</sub> .6H <sub>2</sub> O	4)Na <sub>2</sub> CO <sub>3</sub> . $10H_2$	0			
KEY							
1) 3 2)4 3)3	4) 2 5)2	6)1 7)2	8)3 9) 2	10)3			
11) 3 12)2 13)4	14)4 15)2	16)3 17)1	<b>18)2 19) 2</b>	20)3			
21) 1 22)1 23)4	24)1 25)4	26)3 27)3	28)1 29)1	30)1			
6016							