

Date Planned : / /	Daily Tutorial Sheet-1	Expected Duration : 90 Min			
Actual Date of Attempt ://	JEE Advanced (Archive)	Exact Duration :			

1.	Write proces	the chemical	equation	ns involved	in the ext	raction of	lead from	galena	by	self-reduction (1979)	
2.	Match	Match the following extraction processes with the appropriate metals listed below: (1979)								(1979)	
		Column I				Column II					
	(A)	Silver			(P)	Fused salt	electrolysis	3			
	(B)	Calcium			(Q)	Carbon red	duction				
	(C)	Zinc			(R)	Carbon mo	onoxide red	uction			
	(D)	Iron			(S)	Amalgama	ition				
	(E)	Copper			(S)	Self reduc	tion				
3.	In the	In the aluminothermic process, aluminium acts as:									
	(A)	an oxidising a	gent		(B)	a flux					
	(C)	a reducing age	ent		(D)	a solder					
4 .	Give r	easons for the fo	llowing							(1984)	
	(i)									, ,	
	(ii)	·									
5.	Hvdro	Hydrogen gas will not reduce :								(1985)	
	(A)	heated cupric oxide			(B)	heated fer		(1000)			
	(C)	heated stanni		(D)	heated aluminium oxide						
8		• • • • • • • • • • • • • • • • • • • •								(1097)	
6.	WIIY I	is sodium chloride added during electrolysis of fused anhydrous magnesium chloride? (1987)									
7.	Why is	s chalcocite roas	ted and	not calcinat	ed during rec	overy of cop	per?			(1987)	
8.	Give t	he equations for	the reco	very of lead	from galena l	oy air reduct	tion.			(1987)	
*9.		Of the following, the metals that cannot be obtained by electrolysis of the aqueous solution of their salts									
	are:		(D)	3.6 .	(0)	0	(75)	4.1		() (1990)	
	(A)	Ag	(B)	Mg	(C)	Cu	(D)	Al			
10.	Amon	mong the following statements, the incorrect one is:									
	(A)	calamine and siderite are carbonates									
	(B)										
	(C)										
	(D)	malachite and azurite are ores of copper									
11.	The cl	The chemical composition of `slag' formed during the smelting process in the extraction of copper is :									
	(A)	$Cu_2O + FeS$			(B)	FeSiO ₃ (2					
	(C)	$CuFeS_2$			(D)	$Cu_2S + Fe$	О				
12 .	Which	Which of the following processes is used in the extractive metallurgy of magnesium ? (2002)								(2002)	
	(A)	Fused salt electrolysis			(B)	Self reduction					
	(C)	Aqueous solution electrolysis				Thermite r	eduction				



13.	Which one contains both iron and copper?								(2005)	
	(A)	Cuprite	(B)	Chalcocite	(C)	Chalc	opyrite	(D)	Malachite	
l4 .	Match	Match the extraction process listed in column I with metals listed in column II.								
		Column I					Colun			
	(A)	Self reducti	on			(P)	Lead			
	(B)	Carbon red	uction			(Q)	Silver			
	(C)	Complex formation and displacement by metal					Coppe	er		
	(D)	Electrolytic	reduction			(S)	Sodiu	m		
15 .	Extraction of zinc from zinc blende is achieved by :									(2007)
	(A)	electrolytic	reduction							
	(B)	roasting foll	lowed by r	eduction with ca	ırbon					
	(C)	roasting followed by reduction with another metal								
	(D)	roasting foll	lowed by s	elf-reduction						