(6 pages)	1	Reg. N	0. :	3.		element of adium group.	group —		— is called
Code N	To. : 20321 E	Su	b. Code: AMCH 51		(a)	VII	(b)	VIIB	
					(c)	VIB	(d)	VB	
В.	4.		metal ion pres			talyst is			
	Fifth	Semeste	er		(a)	Rh	(b)	Rh(I)	
	Chemis	trv — C	fore		(c)	Rh(II)	(d)	Rh(III)	
	5.	The	common oxid	lation sta	ite of la	inthanide i			
(I	INORGANIC (For those who join				(a)	+2	(b)	+3	
	ree hours		Maximum: 75 marks		(c)	+4	(d)	0	
				6.		lock elements a			
	PART A — (10				(a)	alkaline earth		neu as —	
	Answer Al		tions.		, ,				
Cho	ose the correct an	swer:			(b)	transition ele			
1. Whi	ch of the followin	g occur	in monoatomic state?		(c)	inner transiti		t	
(a)	He	(b)	Ar		(d)	radio active e	lements		
(c)	Kr	(d)	All the above	7.		———can b	e purified	by van A	rkel method
2. The gase		ronic co	onfiguration of noble		(a)	Li	(b)	Ве	
(a)	np^6	(b)	ns^2		(c)	Ti	(d)	All the	above
(c)	$ns^2 np^6$	(d)	$ns^0 np^6$						
					- 10- 112				
					•				
8. Red	uction of metal	oxide b	y carbon is called as	13.	(a)	Give the prepuranylacetate		f thrioum	dioxide an
(a)	Calcination	(b)	Roasting				Or		
(c)	Smelting	(d)	Carbonylation		(b)	Discuss the ion-exchange		n of lan	thanides by
9. Wha	nt is the equive metric titration?	aient v Molecul	veight of iodine in ar weight = 254	14.	(a)	Discuss the m	ineral we	alth of In	dia
(a)	254	(b)	127				Or		
(c) 10. —	84.8 is not an	(d) n interfe	508 ering anionic radical	· ·	(b)	State and exp			of magnetic
(a) (c)	borate fluoride	(b) (d)	chloride oxalate	15.	(a)	What is coapplication in			
	7.75						Or		
	PART B — (5				(b)	Discuss the		of con	plexometric
			g either (a) or (b).			titration.			
Eac	h answer should	not exce	eed 250 words.			DADE C	(F O		
l1. (a)	What are Clathr	ates? G	ve their uses.			PART C —			
)r		Α	Answer ALL questions, choosing either (a) or (b)				(a) or (b).
(b)	Give the uses of	noble ga	ises.		Eac	ch answer shou	ld not exce	eed 600 w	ords.
2. (a)	Draw the struct	ure of	Wilkinson's catalyst.	16.	(a)	Discuss the st	tructure a	nd bondi	ng in xenor

Give its application.

(b)

metals.

Write the general properties of zinc group

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(a)

compounds.

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Discuss the structure and bonding in xenon

Or

Explain the separation of noble gases.

17.	(a)	Discuss any four general characterid-block elements.	stics of	20.	(a)	What is co-operation and post-precipitation? How will you prevent them?		
		Or			(b)	Or Define the following:		
	(b)	Write a short note on:			(b)	Define the following:		
		(i) Coinage metals.	(4)			(i) Molarity.	(2)	
		(ii) Ziegler - Natta catalyst.	(4)			(ii) Molality.	(2)	
18. (a)		What is lanthanide contraction?	live its			(iii)Formality	(2)	
	(a)	cause and consequences.				(iv) Normality.	(2)	
		Or						
	(b)	Write the similarities and diff between lanthanides and antinides.	erences					
19.	(a)	How will you extract thorium in pu from its ore? Or	re form					
	(b)	Discuss the principles of following r with example.	nethods					
		with example.	, 2					
		(i) Van Arkel deBoer's method.	(4)					
		(ii) Roasting.	(4)					

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