

Handwritten Notes on Coordinating Compounds









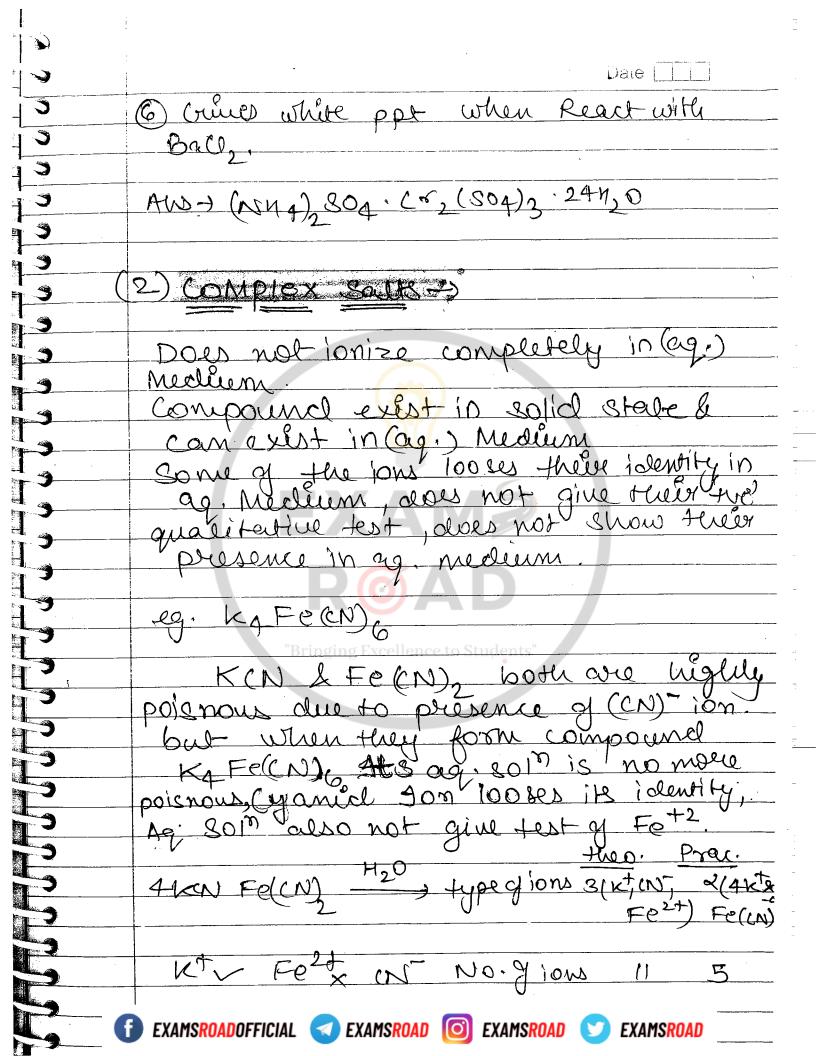




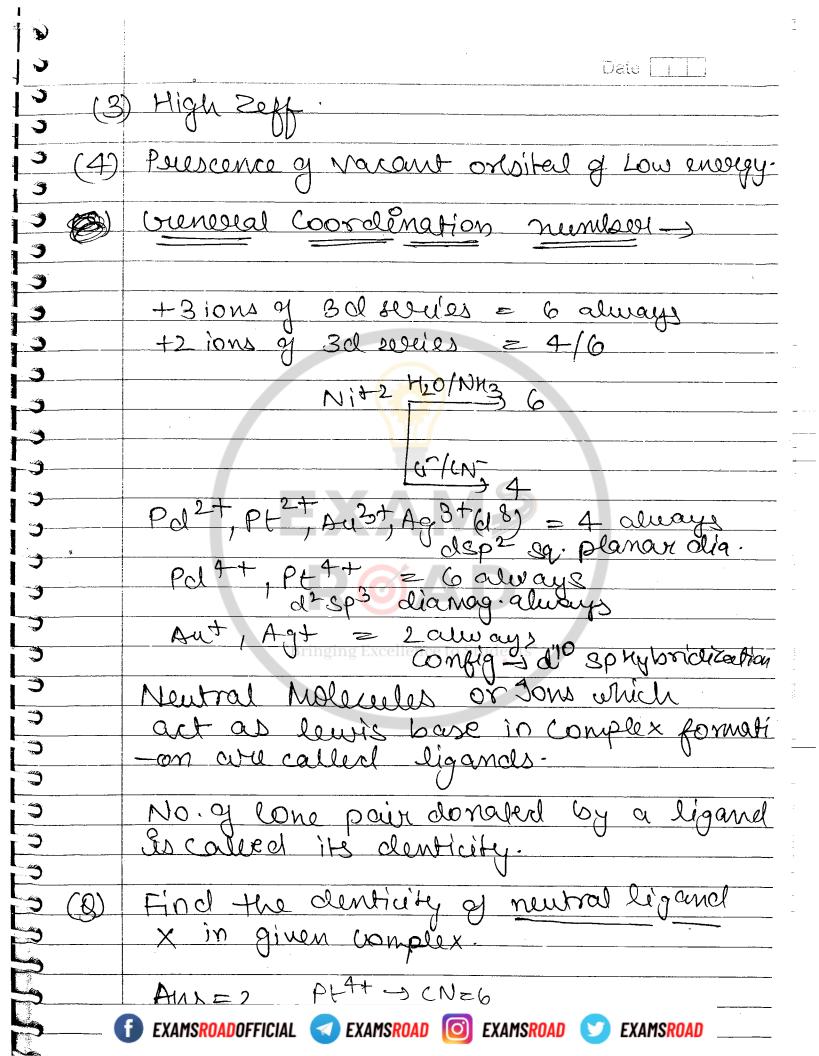
	Date	
		-[_
	CO-ORDINATION COMPOUNDS C	1
	(Complex Compounds	 -
1.		- - •
	Duen Ag. som of two or more that	- - 1-
	sales as suspented to character with a	1
	empounds es formers utiles conteins e	<u></u>
	ons of both salts is called Addition o	 }
	all called Addition stead?	- <u> </u> - -
		7
	KCI (ag) + MgCl2(gg) Six KCI. MgCl2. 64,0 Councilitée	12
		ľ
	Addition compounds ?	Ī
	FCN + Fe(N) -> 4K(N, Fe(N)	
	Cuso4 + 4NH2 - 5 [Cu(NH2)2] 300	1
	21304 + 41V13 -3 [CI(V13)4] 50g	
	Bringing Excellence to Stateents	
7	Addition compounds are classified and two catgories -	
9	nto two categories -	
(1^) completely ionize in	T
	aqueous neclium : éxist only in Solfd State not in ag. medium.	
	Solfd State not in ag. medium.	
	All lons show theren presence in age	
	Medium	
8	All jons gives their	
	12 NO-1.	
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J	Date
3	KClag) + MgCl2 Gy. KCl. NgCl2 GN20 Covenellike
3	Aclalition componed
3	Adduct.
3	Kt / Mg2t u theo Prac type g ion 3(kt, u, Mg)3
3	
3	No. gions. 5
<u> </u>	flame test
9	KU: MgCez: 640 (90) Ng2003 white ppt
3	Kce. MgCez. 6420 (ag) Navoz white ppt
3	
3	Agno3 white ppt.
5	Mohr's Salt
3	IVIONITO
3	Fe804 (NH4), 804.6H, 0
3	
3	type of ions in agriculium = 3
3	No. gions in ag. Meclium = 5
3	
3	O when react with Naon gives geren ppt of Fe(OH)
3	(2) NHZ = NKZ + HT
3	
3	LNOW NH37
3	gives basic gas when seach with NaOH
3	ů .
•	Bacl 2/ Pb(NO2) 2/8542
3	Bacy/ Pb(NO2) 2/8542
3	(Baso, PhSO4/ SrsO4)
3	
3	
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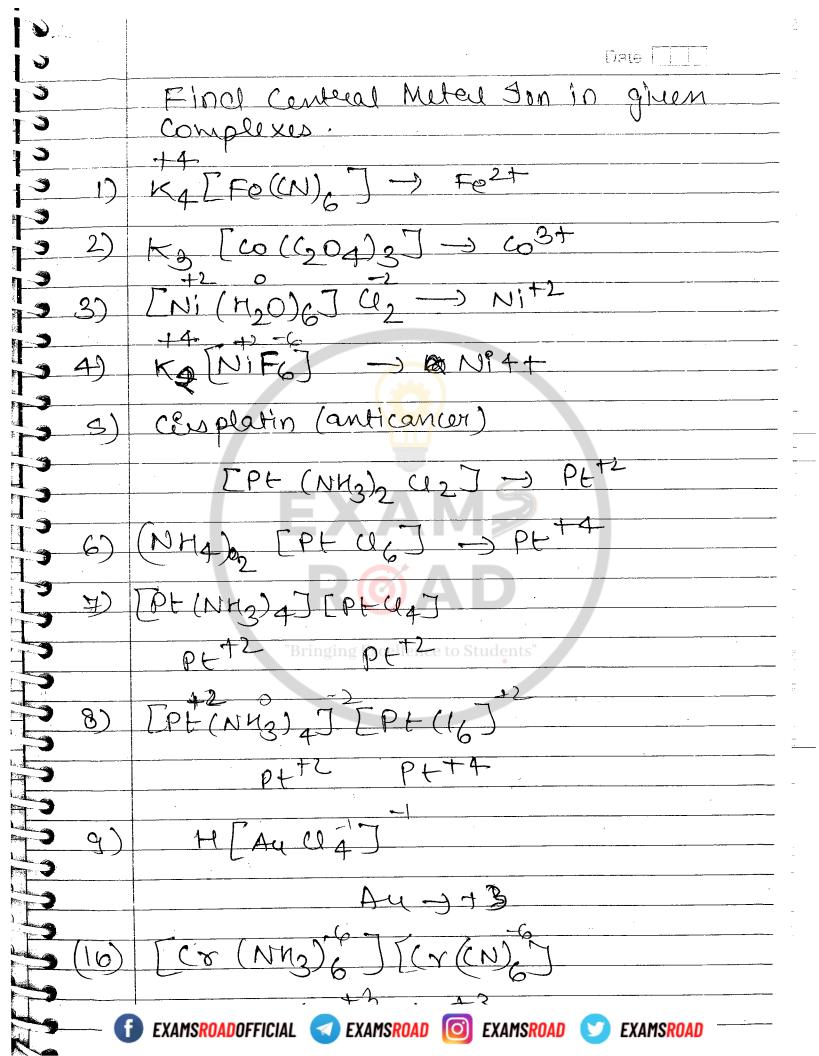
Date
= H= Alum
Myso4. N2(804)3. 294,0
[M(M,O),] + [N(M,O),] SO2-8120
200
Not (+ ivalent) = aux to small size NNat cst, Rb
Not (trivalent) = auc to small gize
-) MIL 18 - Cr8t, A13t, Fe3t
=) All almos gives ppt wike Now
alignostic yas gradulose to go to the state of the state
= All Alums gives ppt. with Bally (while ppt of Bason)
(while ppe of Bason)
example
Potash atom alum
K2804. A12(SO4) 3.244,0
Naon Chairs
ALOND 1 Base) - Na[ALON] 4]
- So Calaba
So die in colt x
water 30 hable
(Q) Find the formula of an all 1 - P
(8) Find the formula of an alem haungst following peoperties
1) Oebres basic gas when sceace with
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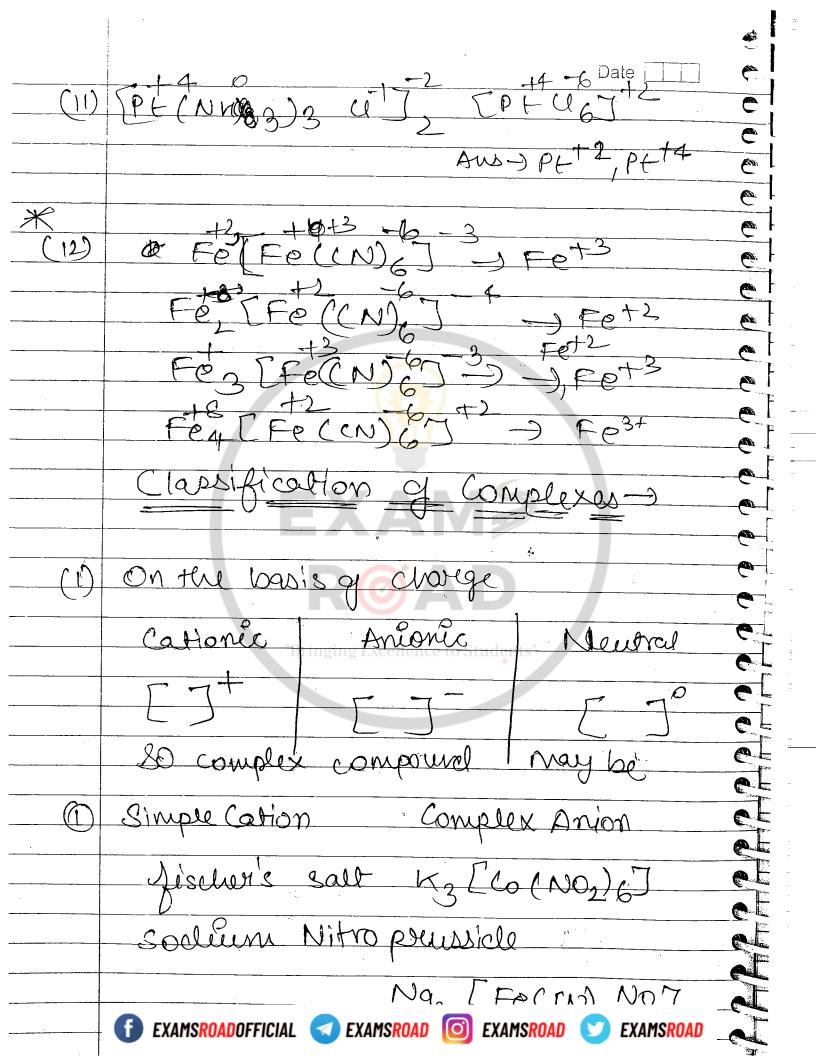


Date	
Dons which are not jouised completel	y C
in ag medium hoses their identity	
in aq. meclien written in squared	e
bracket collectuely. Such ions Grave	
called complex ions. & tons present	_ (
En Salt which contain such low	
are called Complex Salt.	e e
The could some some	<u> </u>
4 0	<u> </u>
In Complex ion -	<u> </u>
Alteast one metale ion present which	l
Es bonded by/swerounded by	VIC.
neutral rublecules/jons by correlina	e a
bond i e why complex compounds a	10
also named as Coordination Compo	IAN.
~1 h.	
Metalian uthich is centre y complex act as levie actol is called centra Metal ion (CMI).	
act an love act of shoot of which	
Moter 1 200/CMT)	•
	•
No. of lone pain accepted by a centeral Meder Ion is called site coordination	1 6
Material Ion is colleged to a condination	1
nember.	C
NUNVEY.	•
D .	•
ropeettes g CMI-3	è
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(1) Small Size	
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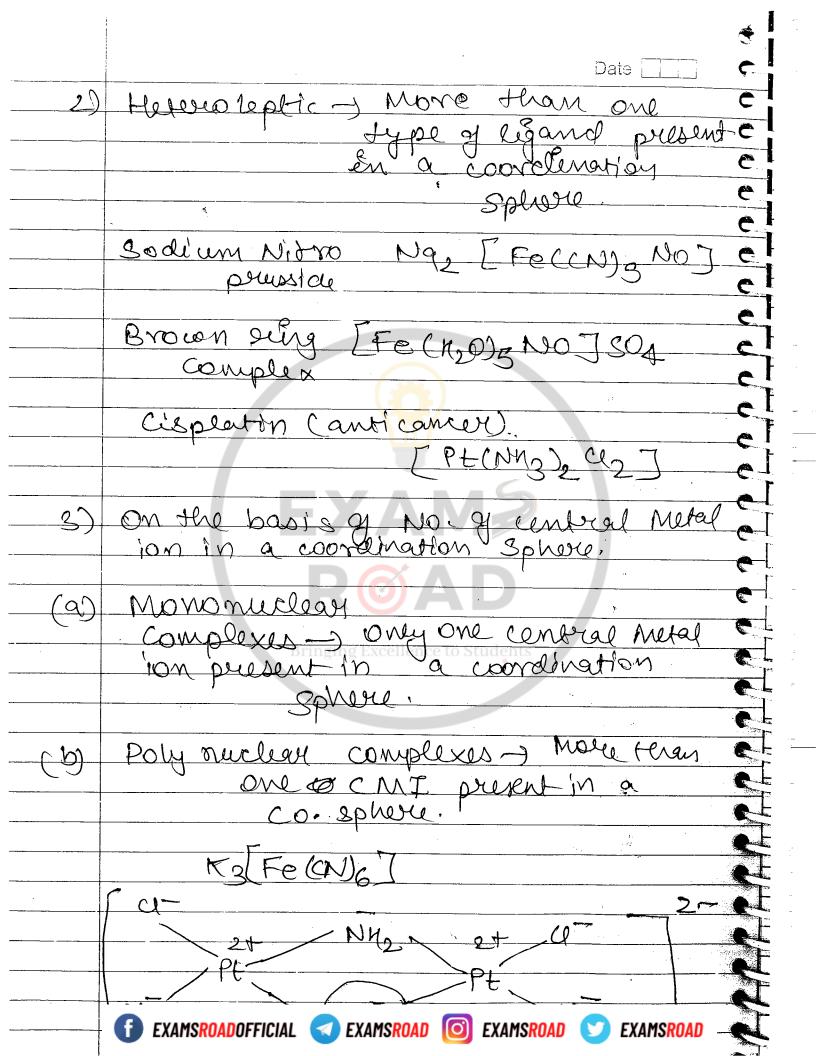


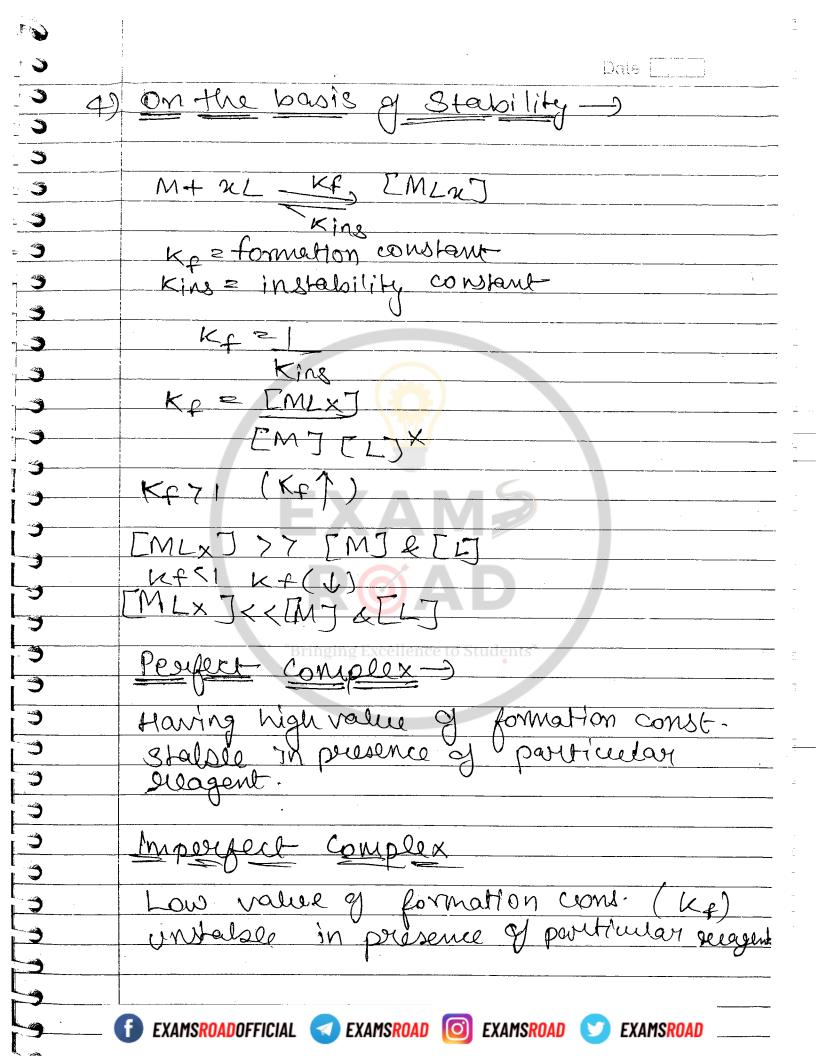
			÷.
	Date	6	
	Cronneta, of Complex ions is		
·	Creometry y Complex ion is called woordenation polyhedera.		
	eg - Jetrahedral, square planar		
·			
	Charge on complex ion so the sum of oxidation state of central metal of ion or ligand.		
	100 00 liggrad		
	<u> </u>		-
	Space in 3d where coordinate bond		
for	on bou central metal son legands. Se called asordination sphere, Park		_
	as called a order ation sphere, Park		_
	the coordination aprère.		
·	The coor wington govere.		
	Species inside a coordination.	ļiņ.	_
	Sphere is non-prizable attile		_
	Species present in journation Sphere is journable	The state of the s	
	Sphere is ionizable		
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	boud un'the convoler in a color		
	Simple ions duch form donic boud with complex ion & called		
<u> </u>	Switzey Salt Fischer Salt		
	[Cu(NK3), 7504 K3[Co(NO2), 7		
Cand			
inn	ner ion 30,2- in aq. medium [cy (Ny3)4] so,2-3K+	Ì	
1010			
	[co(NO2)6]		
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<u>^</u>		al	

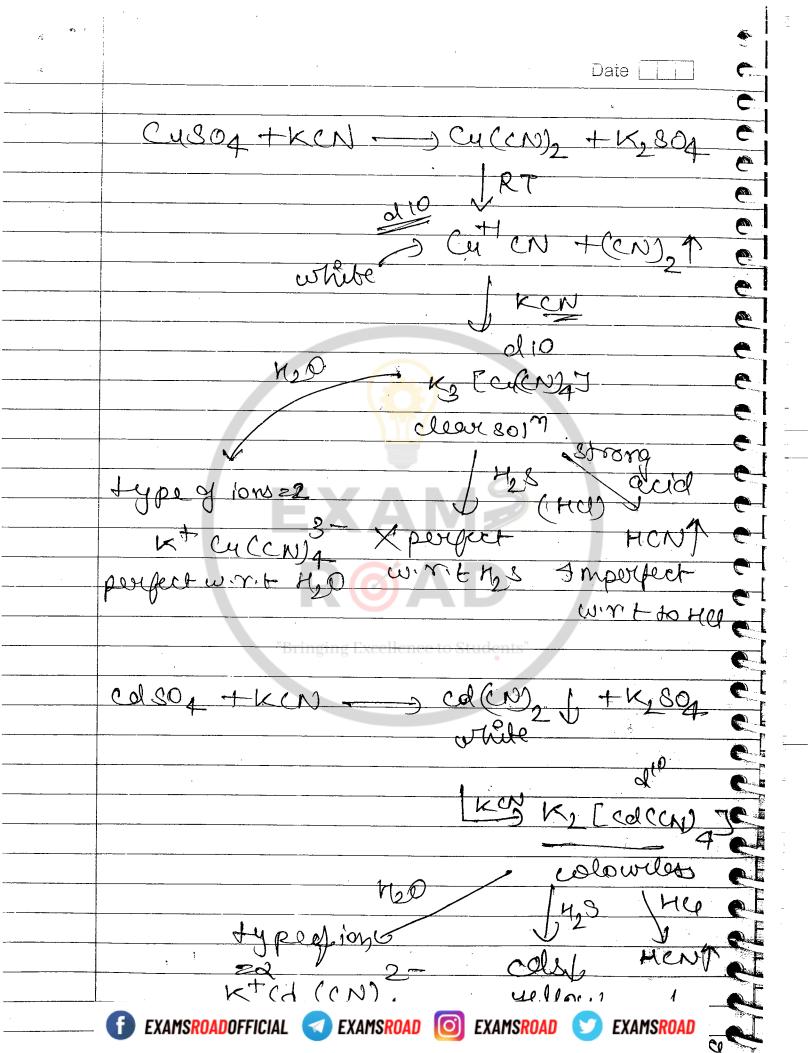




•	Date []
5 (D) Complex Coution Simple Anion
)	
C	Switzer Salt (Cy (NM3) 4 7804
<u>.</u>	
3	brown rung [Fe (4,0), NOJ 304 Complex
<u></u>	Complex
<u> </u>	
	3) Complex Cation Complex Anion
- (C) Comparation services
<u></u>	[Ag(NY(3)2][Ag(N),]
3	- 1 - 3, Z JL 1 - 2
3	
3	D Neutral complex-
—	
*	Asplatto (ant? cancer)
*	[Pt(NN3)2 42]
C ,,	L16 (773/2 42-)
	"Bringing Excellence to Students"
	Ob the basis of type of Ligands -
•	
	D Homoleptic -> Having only one type of ligand in coordination
3	ligand 11) coordination
3	sphere.
3	fischer's Ko [COCNO.70)
<u> </u>	304 3 (NO) (S)
3	switter [cu (NH2)4]504
3	Salt Equity 2
3	
9	EXAMSROADOFFICIAL EXAMSROAD EXAMSROAD EXAMSROAD
<u> </u>	EVALUATION OF EV

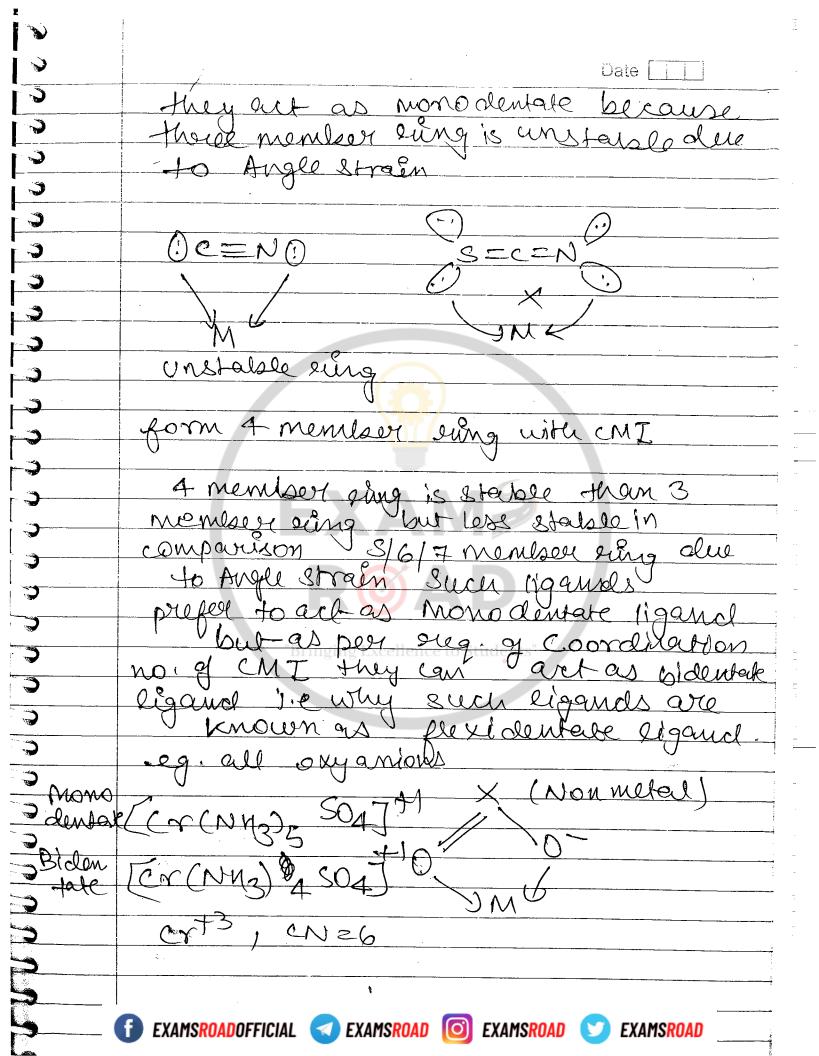






KI & KZ [Cy CCN)4] >7 KZ [Cd CW]4] and Cyamo complexes measig ni There is no sharp border lone to They are defined in presence of RAMPS ASSIFICATION OF Anionic Ligard - In the naming of Anionic ligard suffex best ato As a country ion Chlord de Chlorida Sulphabo **EXAMSROAD**

/ h . ^	Date	
$-(\tilde{p})$	Neutral Liganels -	
	<u> </u>	
	Greneral name is used in the naming	<u>e</u>
	of neutral ligands extept	<u>-</u>
	H 0 -00	<u> </u>
	M. O -agua	_
	My Amontre	
	NO - Nitrosyl	
10	Cationic Ligands ->	
	Sum suffix & used in the naming	
	g cattoriel Pganols	
-		
	eg -) Not -> Nitrosoneum/Nimosylie	M
	N205 - Hydrazinium	
	"Bringing Excellence to Students"	2
	On the basis of Denticity ->	
	Deraray -	
	Only one donoy site = monodentate	
	and our anne	1
	DOSCILLO Han lavar all and condition	
	Only one donor site = monodentate because they form only one coordinate bond with a CMI.	
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	Harring two olomor lite	F
		F
	form three number eing (Enge)	T
	converte	A F
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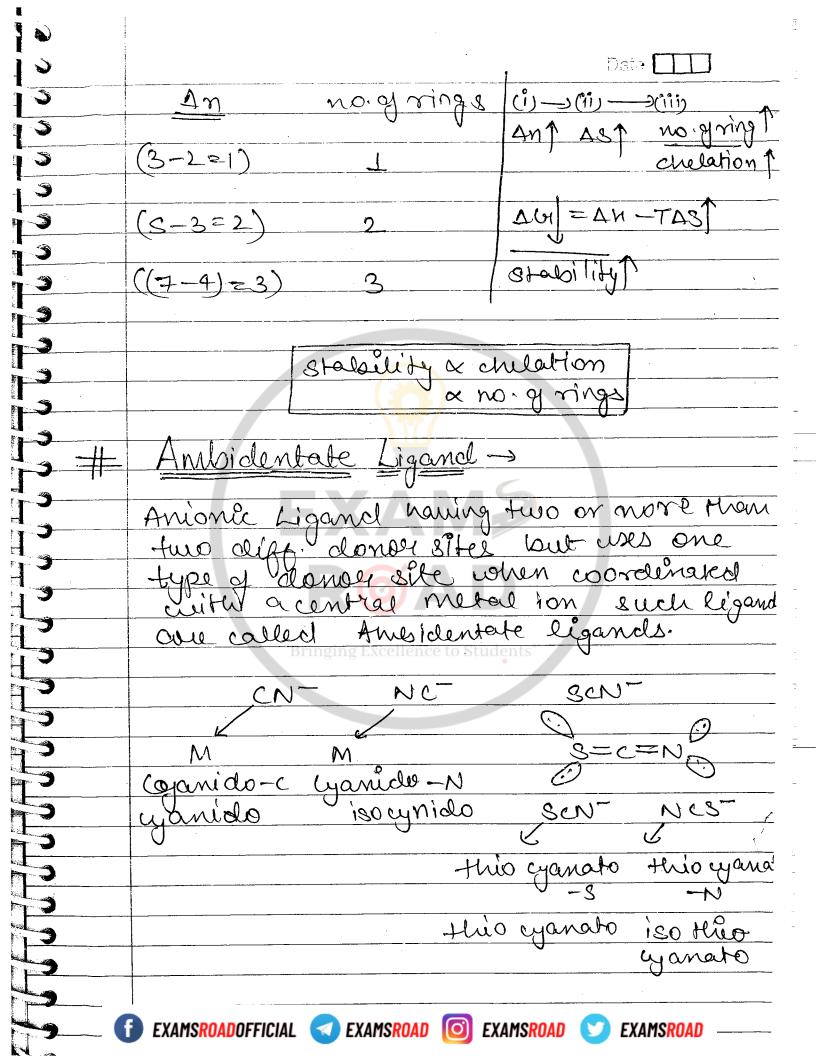


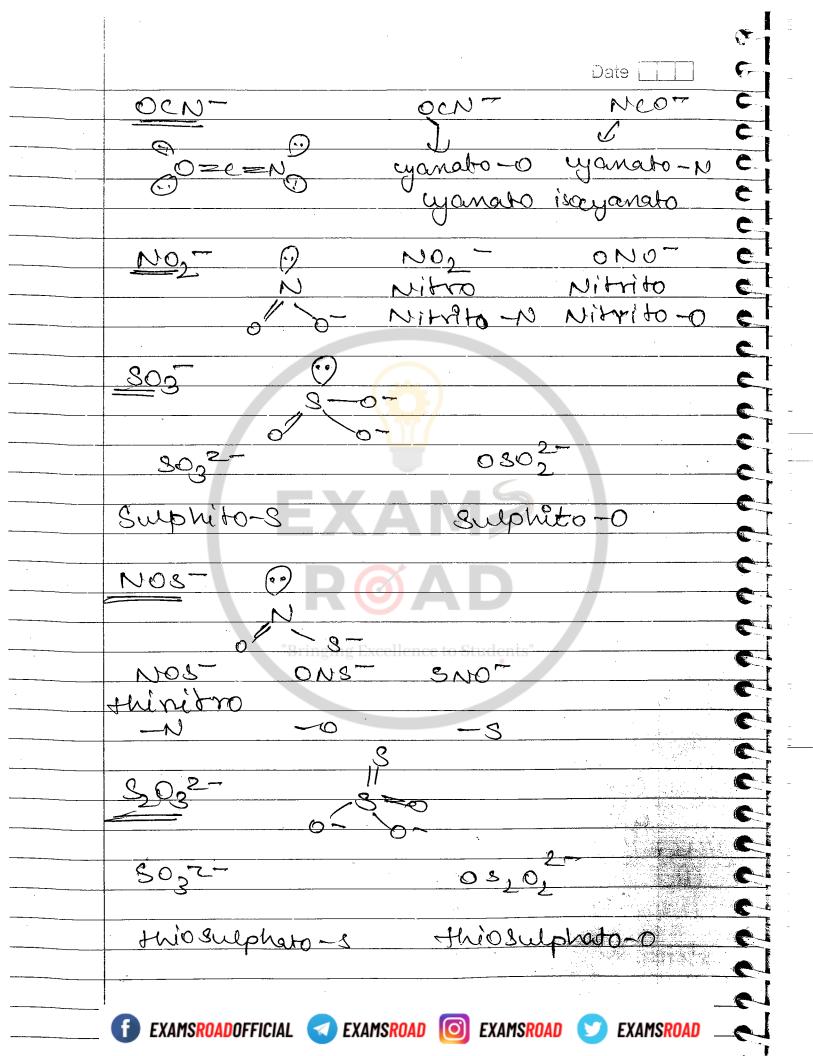
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form S/G/I maniform sing - ach	
as bioloutate i dictentate lianua	c [
Jane,	e
	e
Jegourels Having 3 or molle donose site form \$16/7 member lung act as polydentate.	C
form 3/6/7 member lung act as	e
polydentate.	c
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3 donor - tridentage	c
a demose y tetraclemente	c
Sdonor pentadentate	
6 donor - nexa dentate.	e [
CHELLATING LIGAND ->	
When bedentate ou poly dentate ligand	
coordinated with a central Metal Jon	
When beclentate ou polydentate légand coordinated with a central Metal Jon they form singlète structure. Such	
Oliver and college college of	
phenomena Es called chellation, Such	
légences are cared chillating léganels	
No. of chellate sing formed by a ligard	
2 Donticely -1	
[NI(NH3)6] + en -> [NI(en)(NH2)] +2NH3	
[N(6W)(NH3)] +3NH3	5
	ST
[NICNM3) CT + 2en -> [NI (en) (Nno)]	5
[NICNM3) (7) + 20n -> [NI (en)2 (NM3)] + 4NM	!
TNI(NK2) T+ Zen - 2[NI(ON]	
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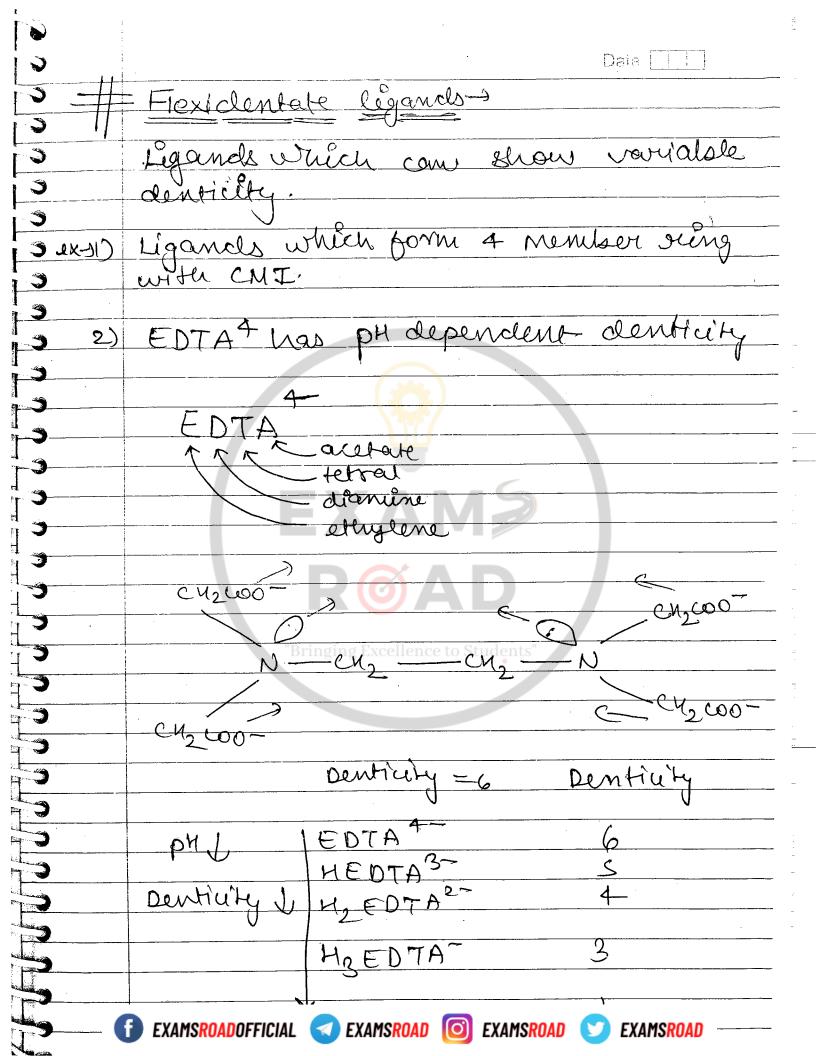
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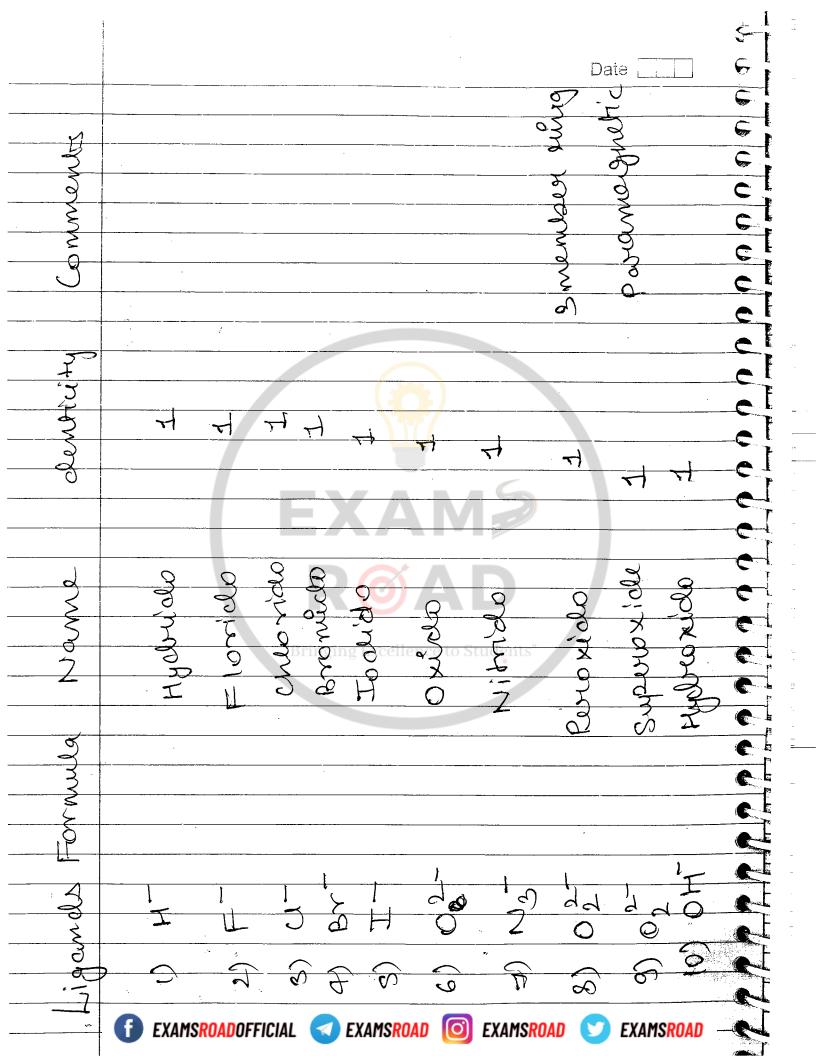
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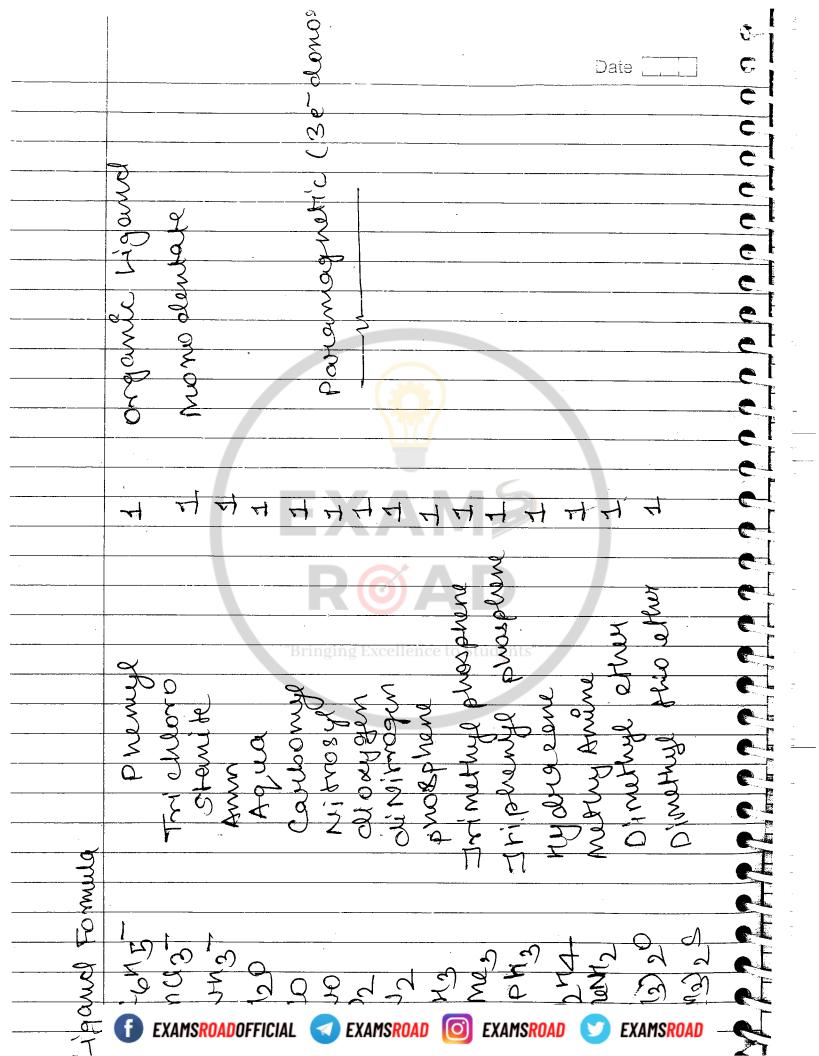


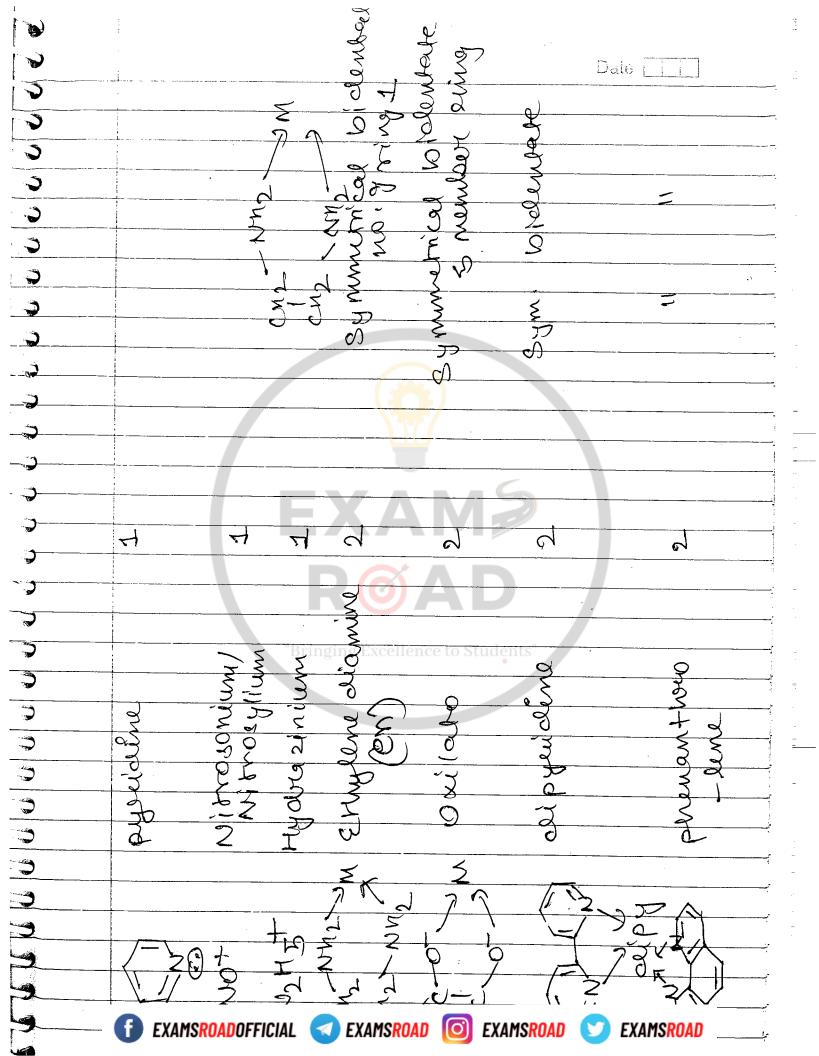


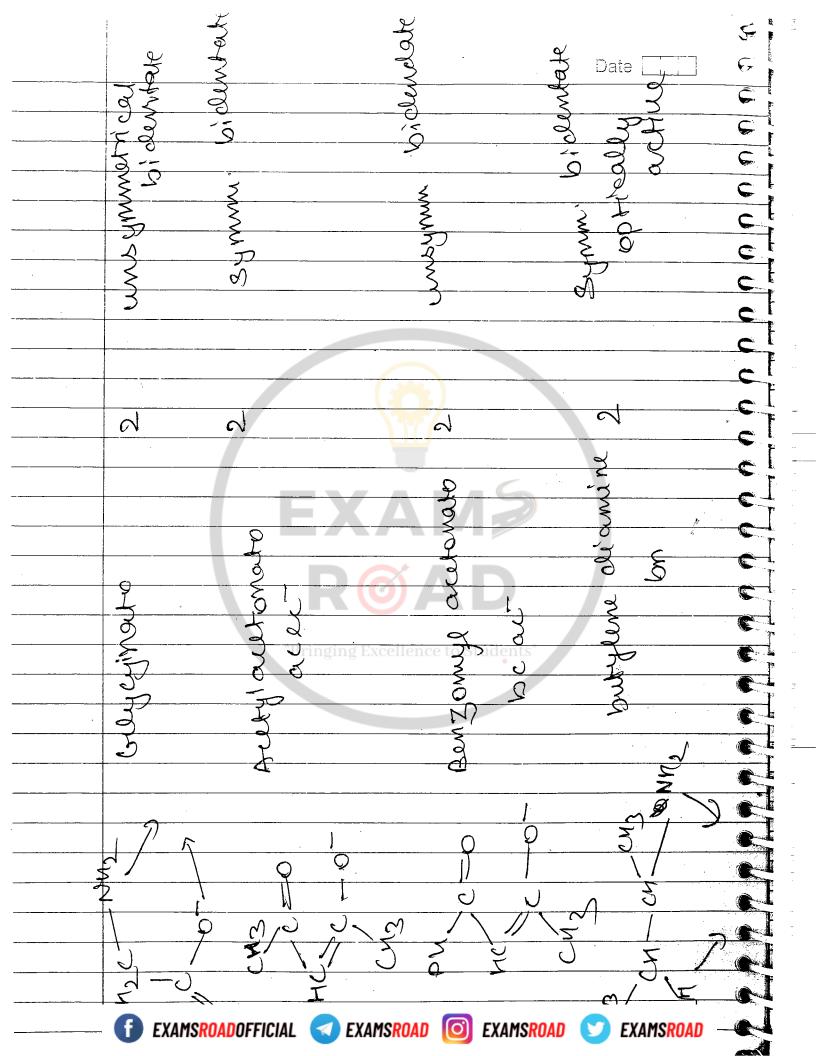


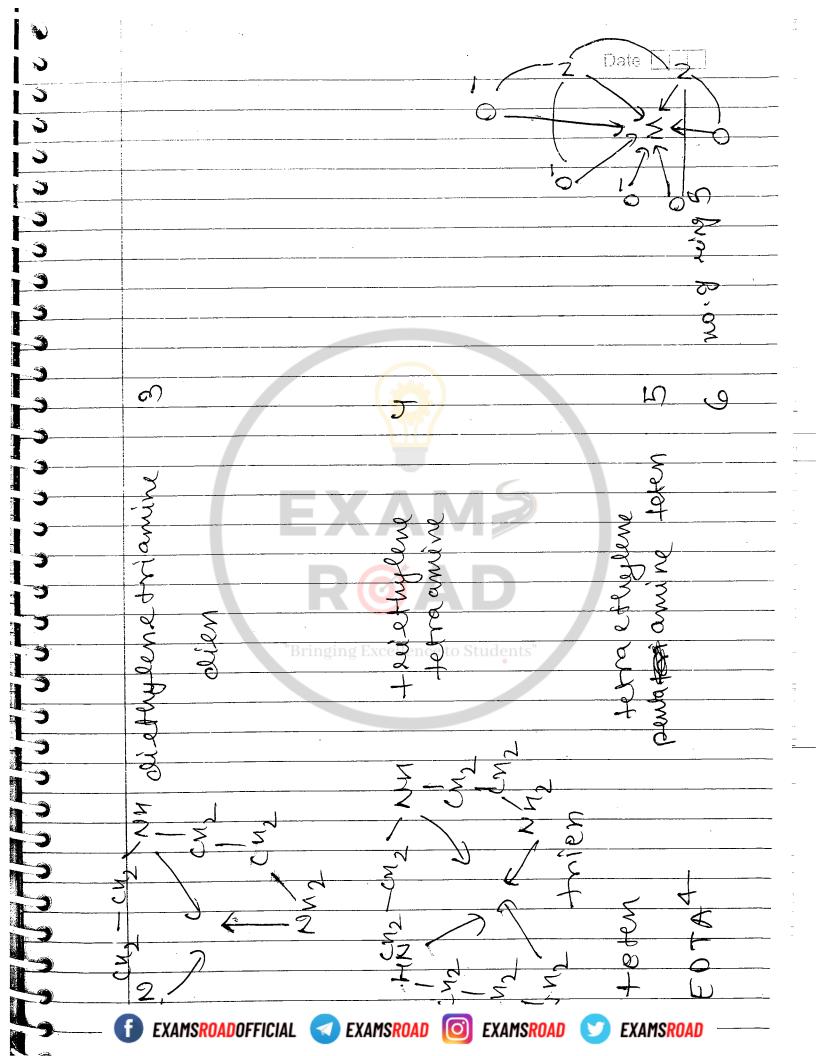


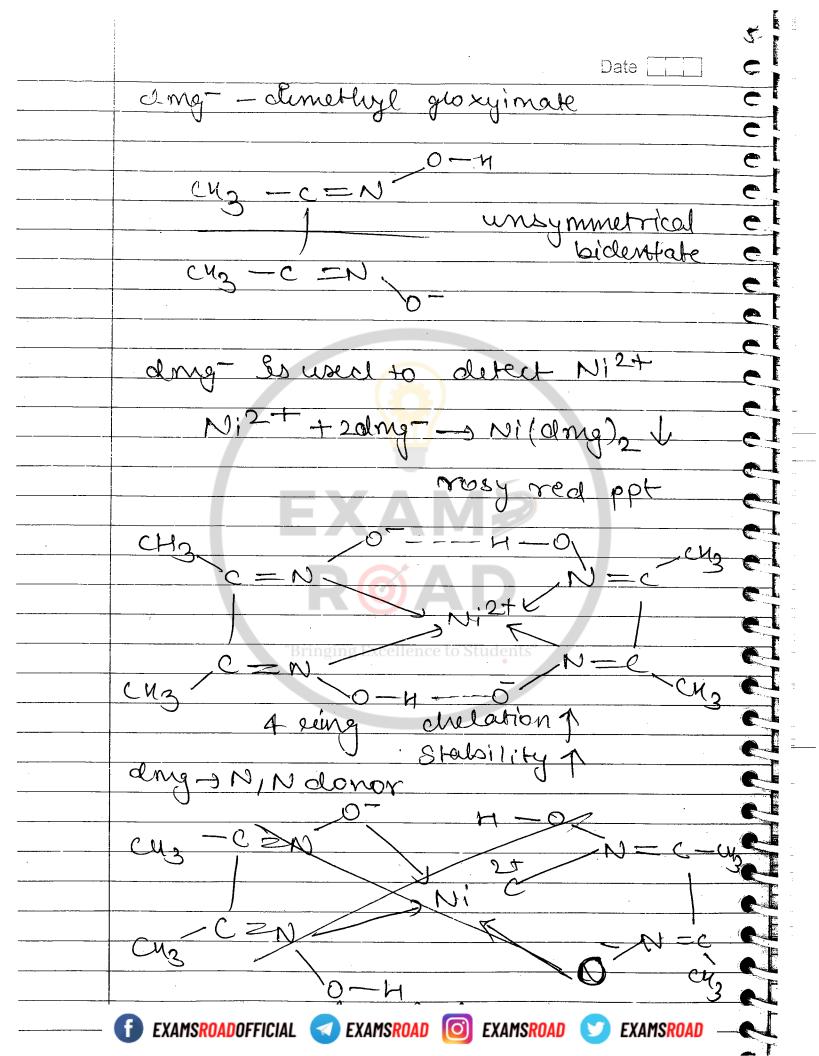






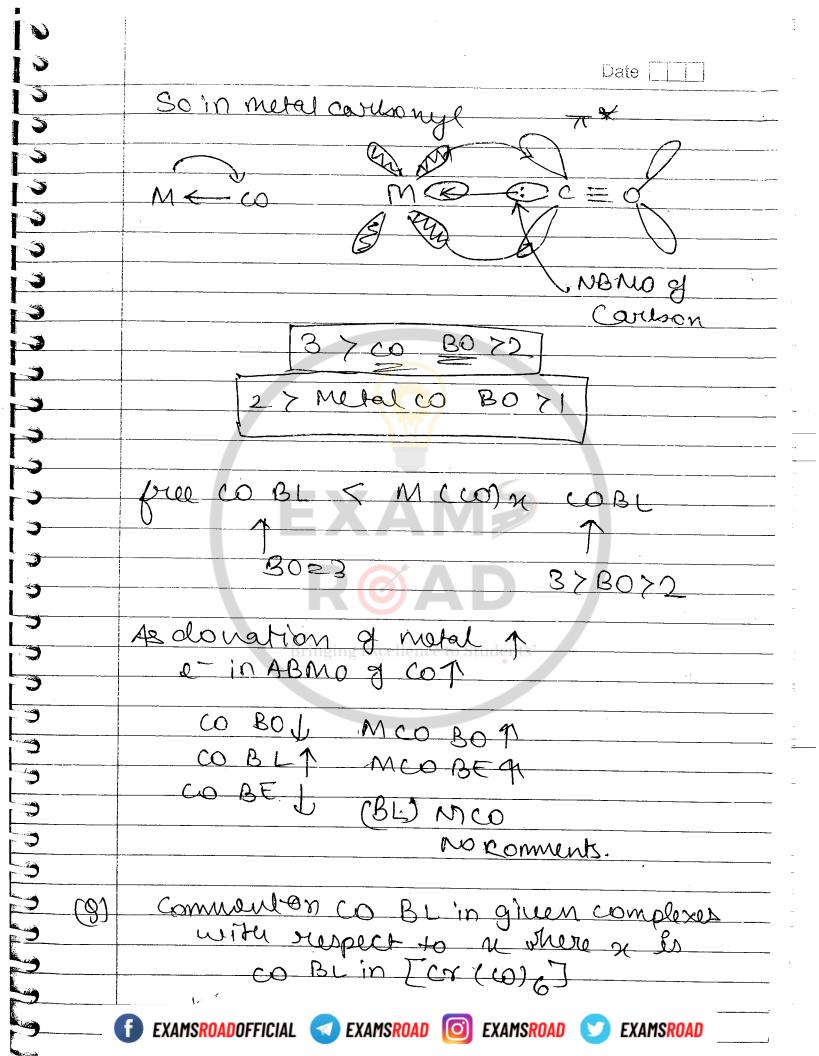


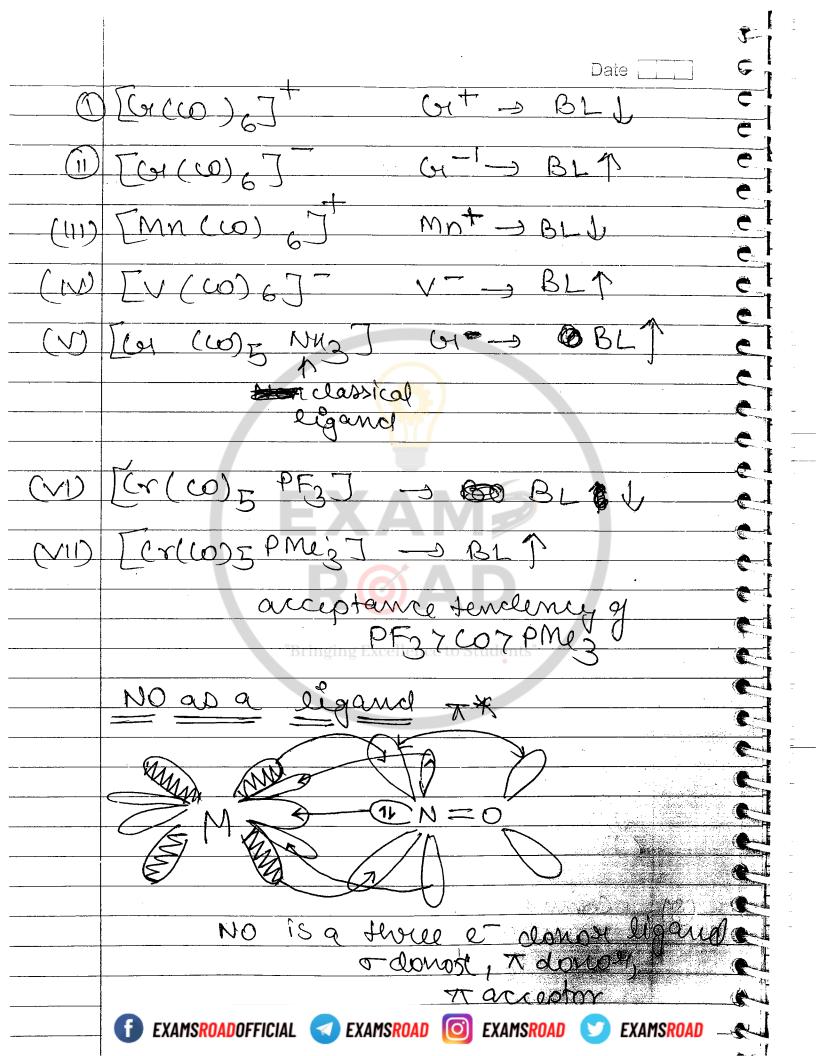




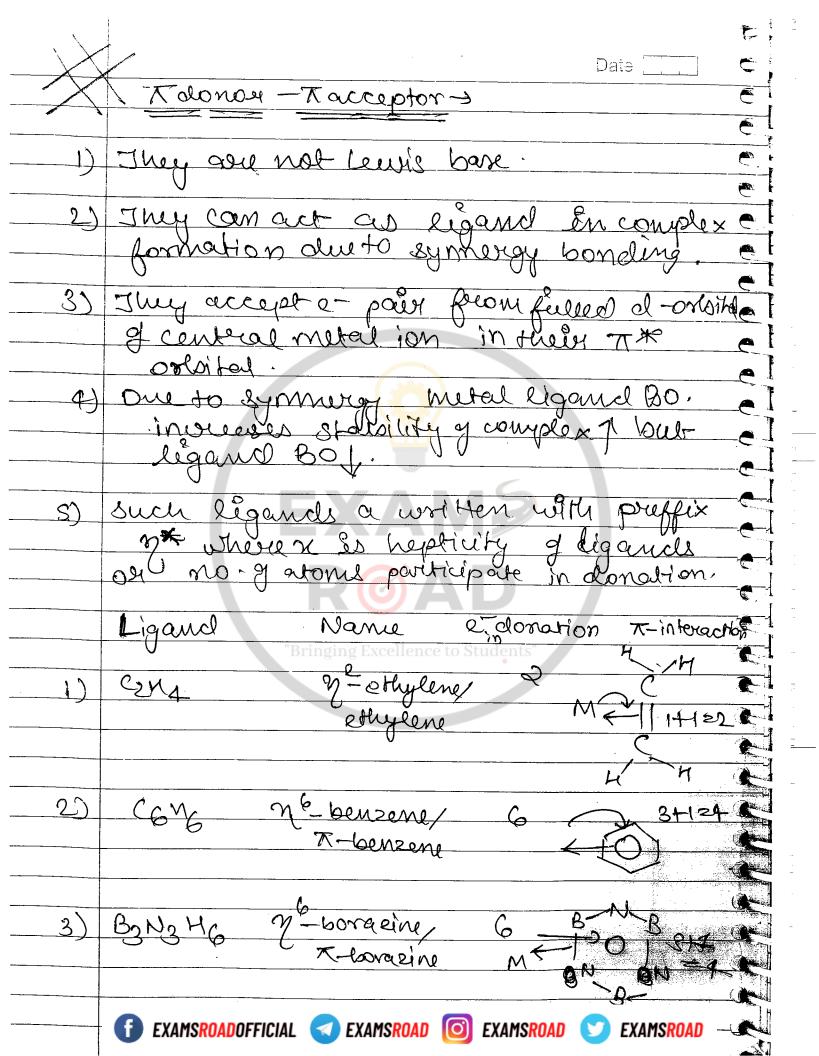
Date _____ Classification of légands on the Basis of Bonding Pattern Non-Classical Claseical donor as well as (volonor) acceptor) (only cloner) acid ligand M accept in form of the assence of vacant 5 BO = orbital take metall L ligand rend & 1st period donoer, assence of give + take=syntagic T-bonol. NM3, M20, ONT, FT en, dien, trien, No H, NY, NY, 02-Non-classical ligands Tolonor Tacceptor donor-Tacceptor chonate xe /accep donates lp. except in form of x always except e peroni CMI inTC* lone pair donoy Love pair donor accept Te in due to synergy accept e in the ML BOY example -> 15/14/16e d-orbiter so they can act as ligand 10, NO NOT, CN, N2 PME3, PM3, PF3 ROAS in complex form EXAMSROAD SEXAMSROAD **EXAMSROAD** EXAMSROADOFFICIAL <

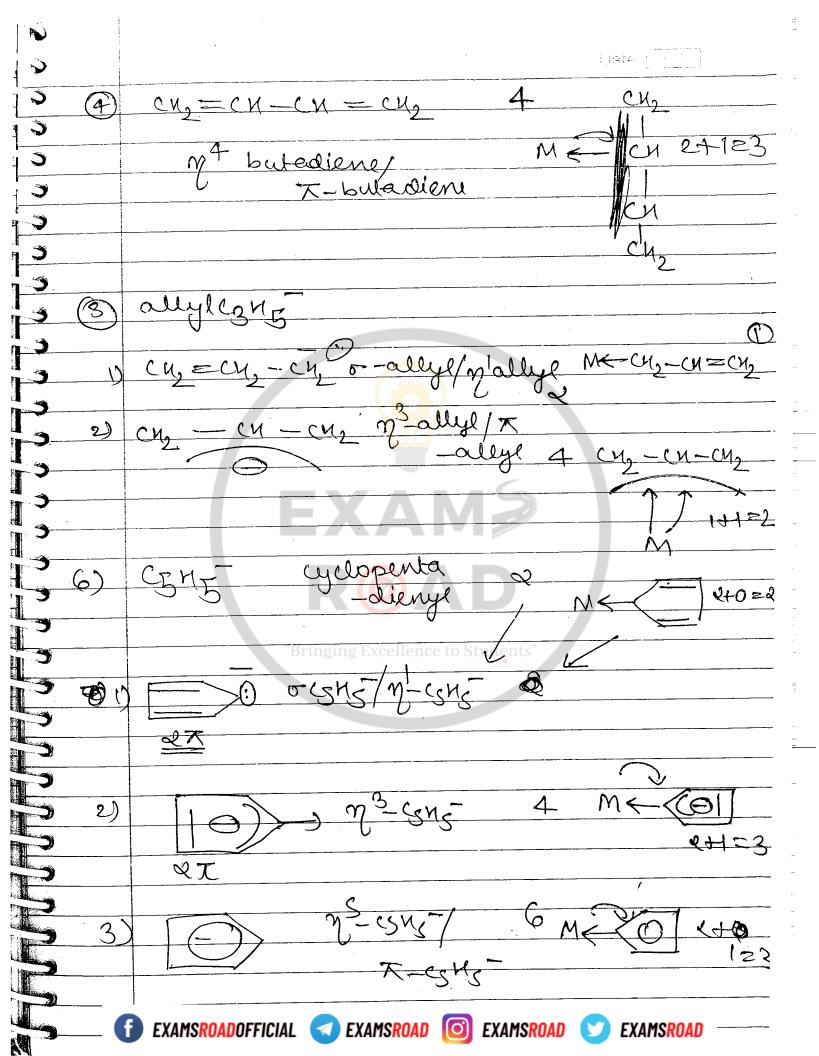
Synergic Bond	in Metal Cardsonyl
•	
Acc to MOT	CO=) 14e
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7 1	slight Bonding
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E' howing Slight A-B che	
slight A-B cho	exacter
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In Catom is	onoy -
CO Reason	n DENGCEO
2) Energy g	n 1) EN y C<0 NBMO(C) 7 NBMO(O)
2-00 TX(100	en 80 St accept new
Only donation	10/0 HO GOOGO
Over our surringin	g Excellence to Students"
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	Slight)
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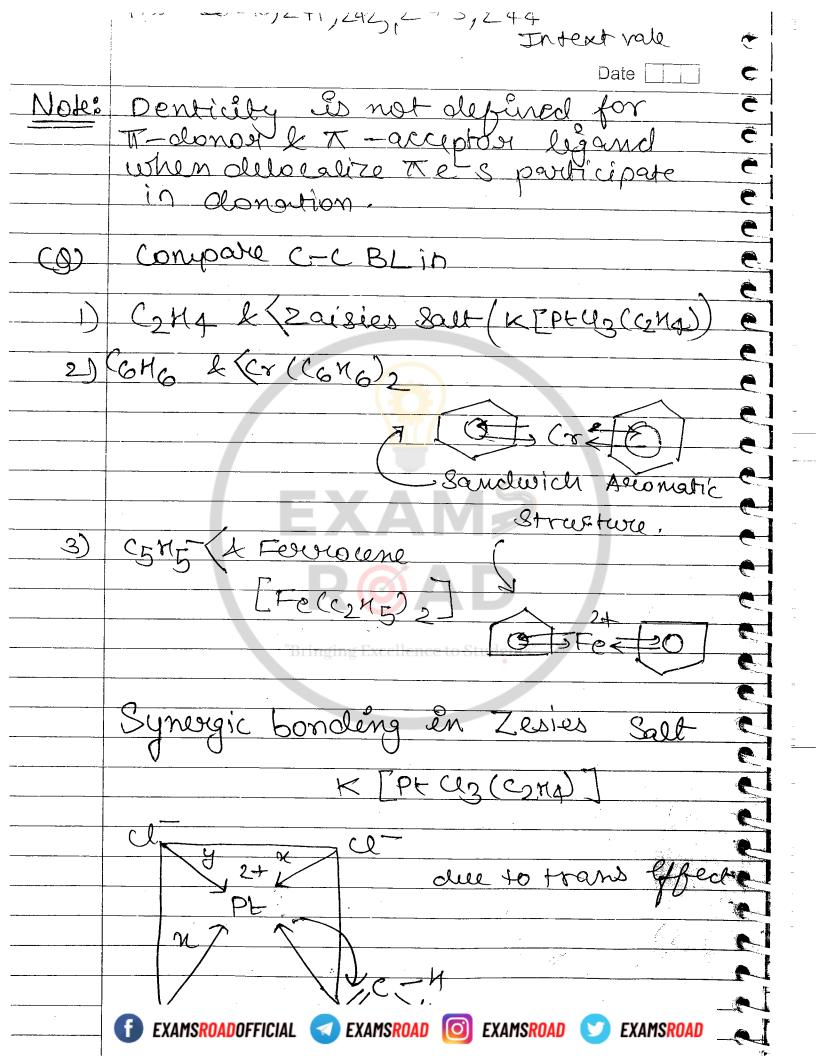


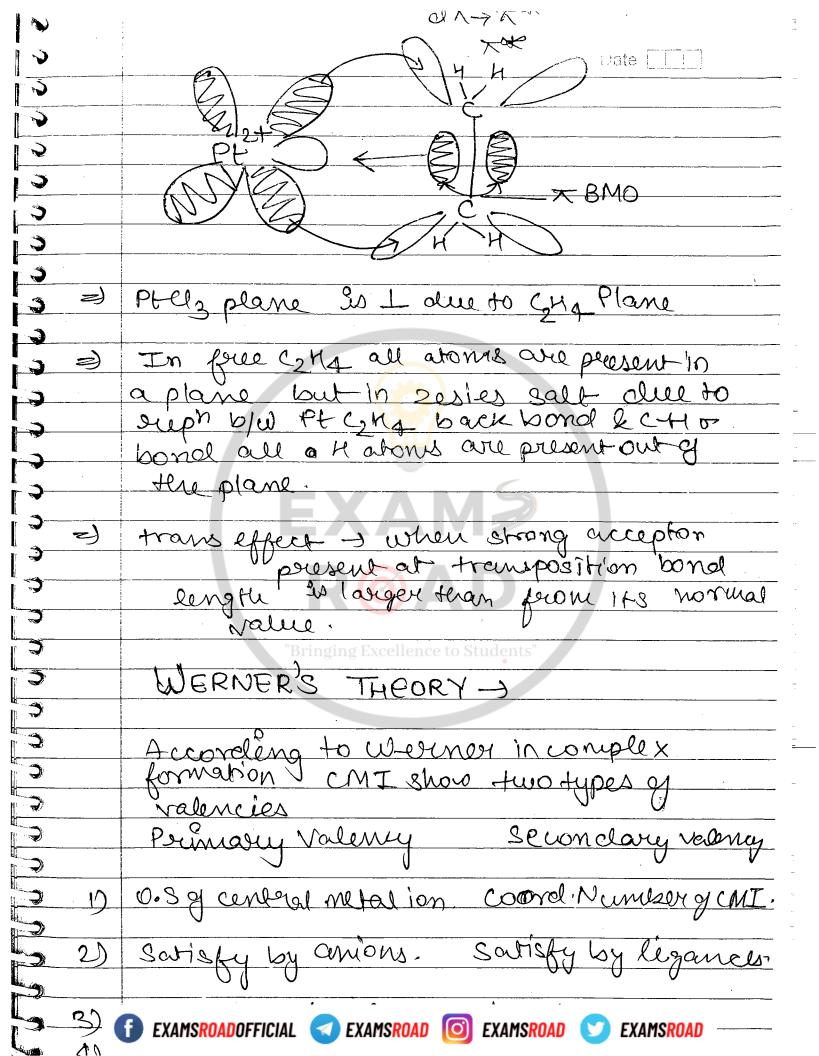


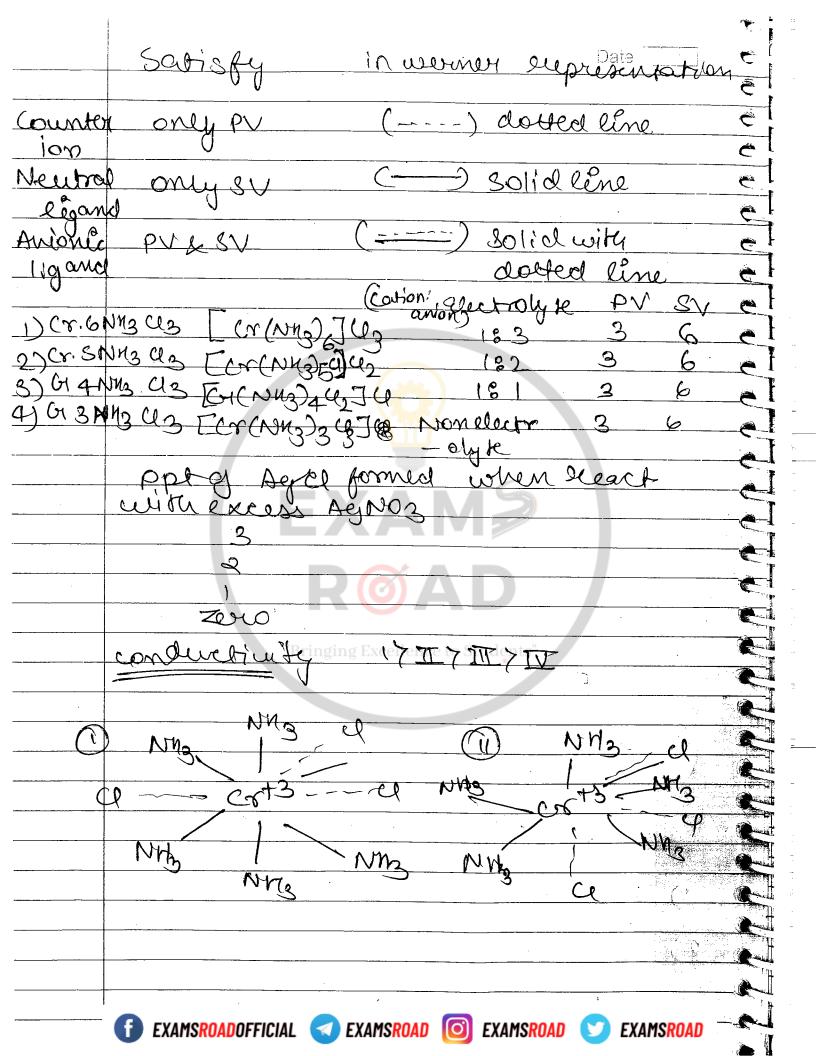
Date [] PF3/PMe3/PPn3/PM3/R2S/R3AS As a ligand No effect on p-Me bond order because P'accept e- en Ek a -onsitel Practical enidence of Co BI -euch co Bo-/lol Syrungic Bond

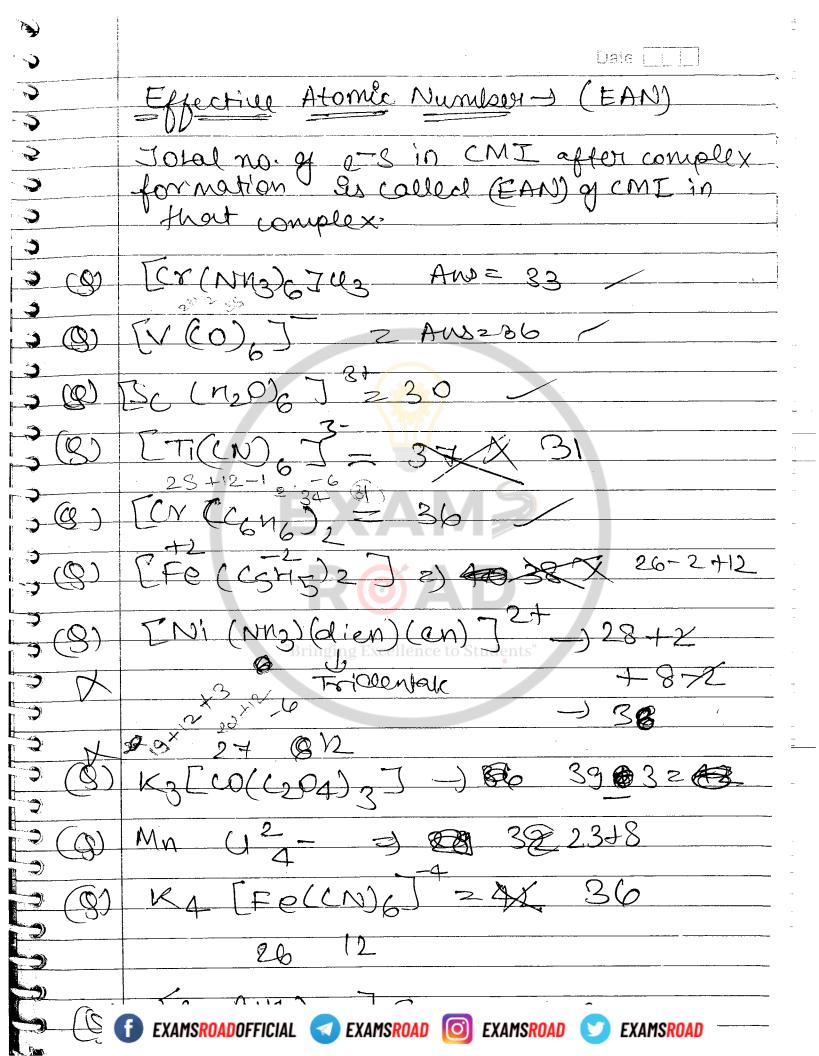


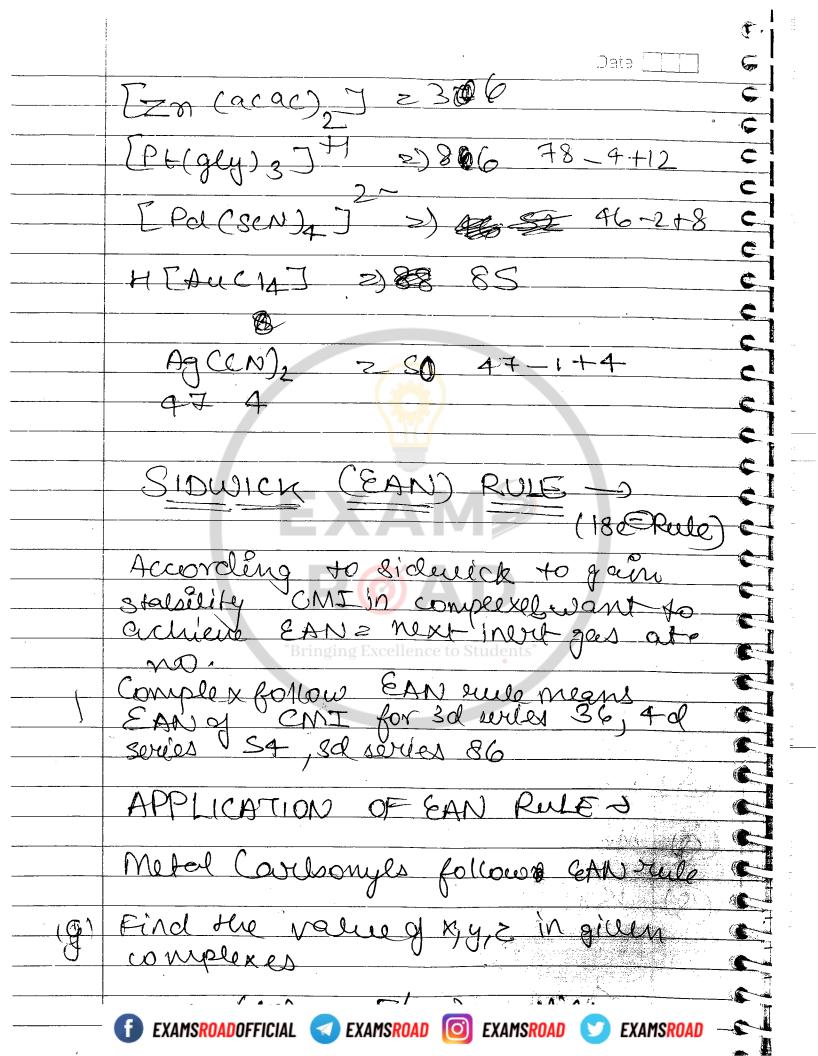


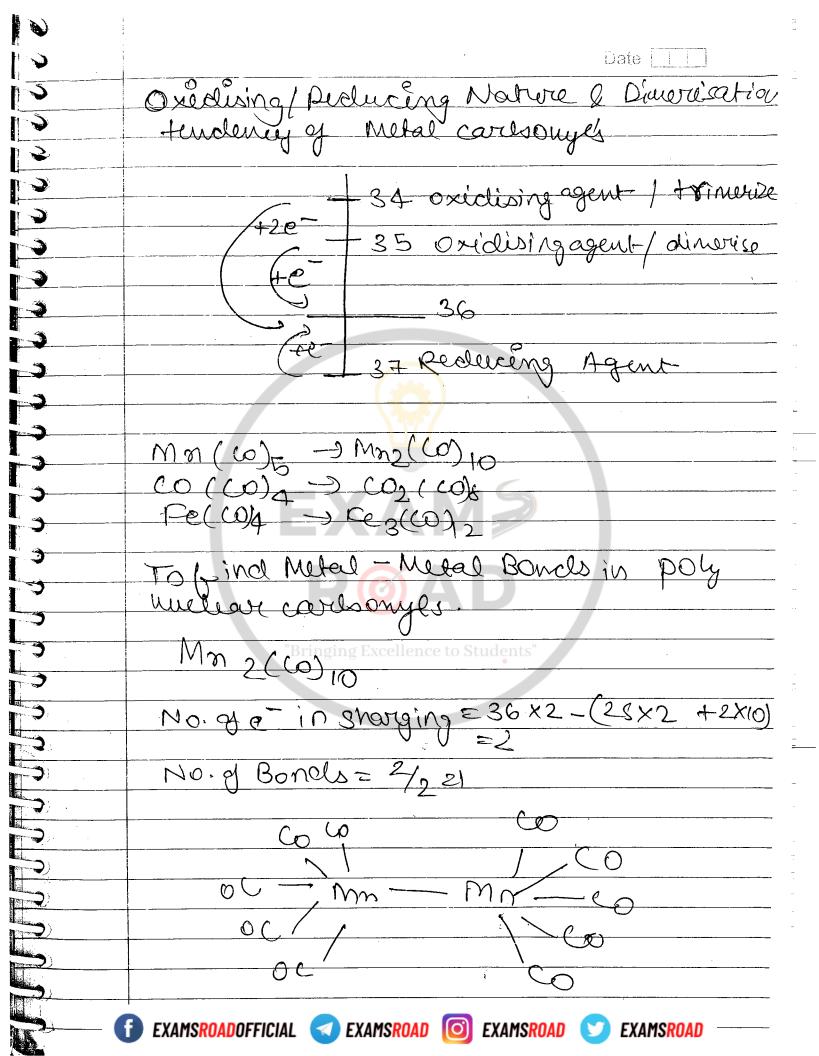


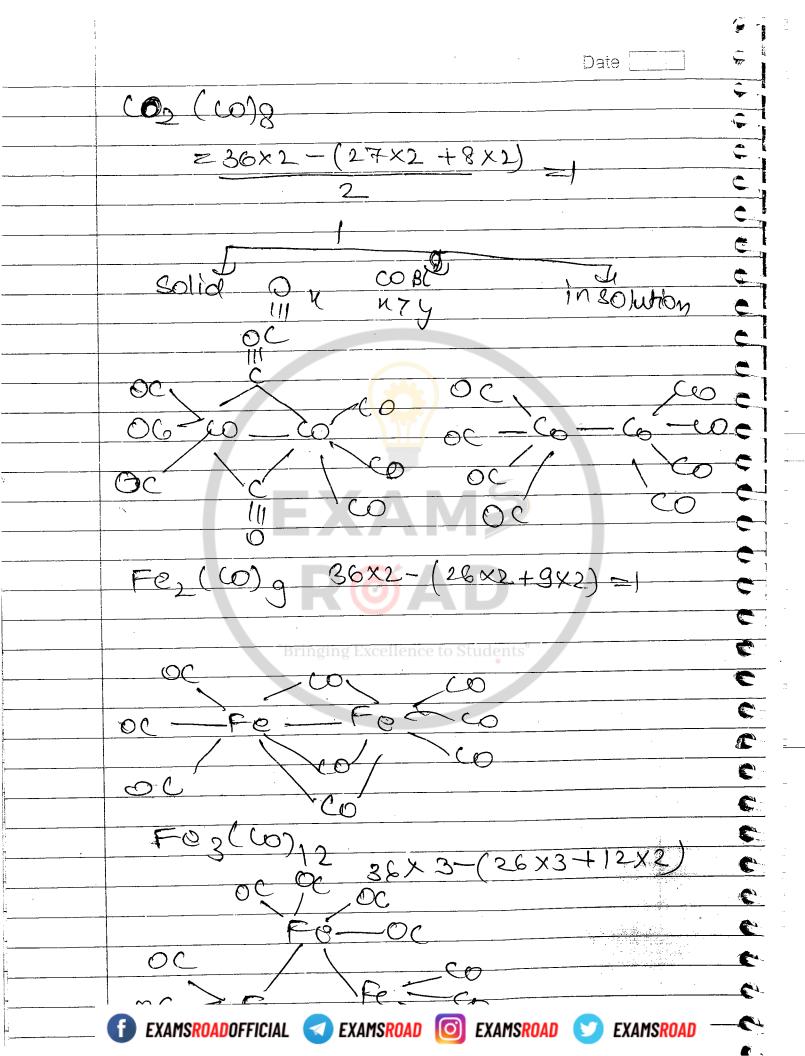










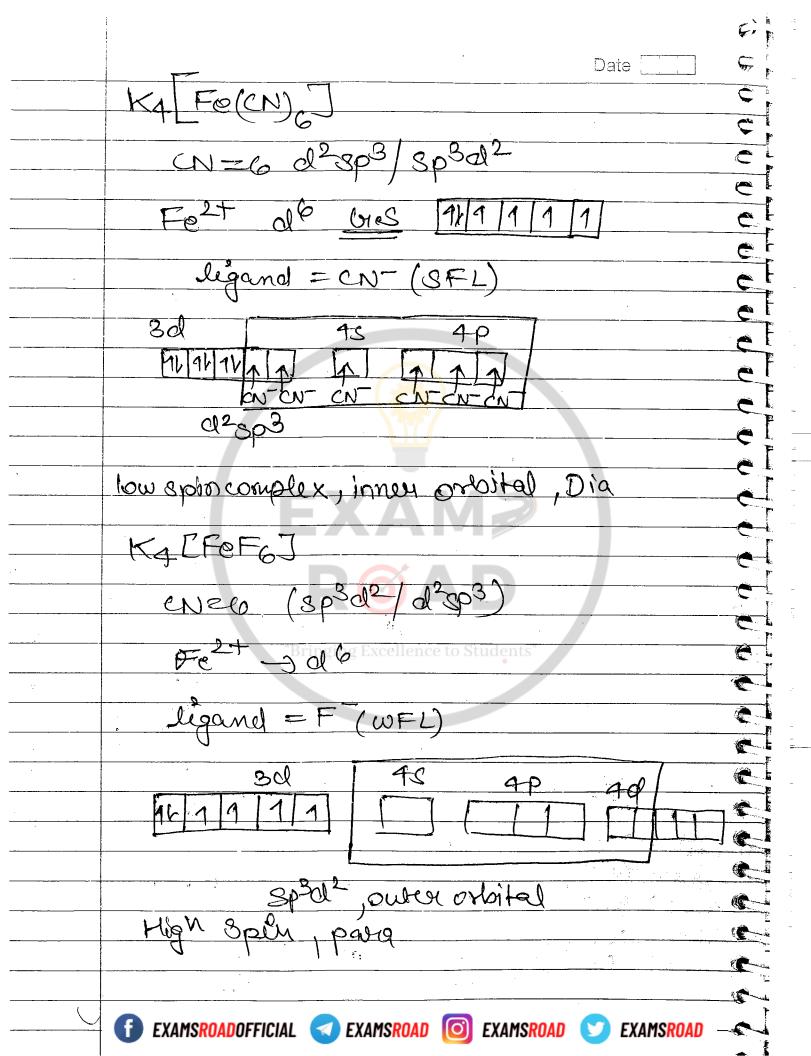


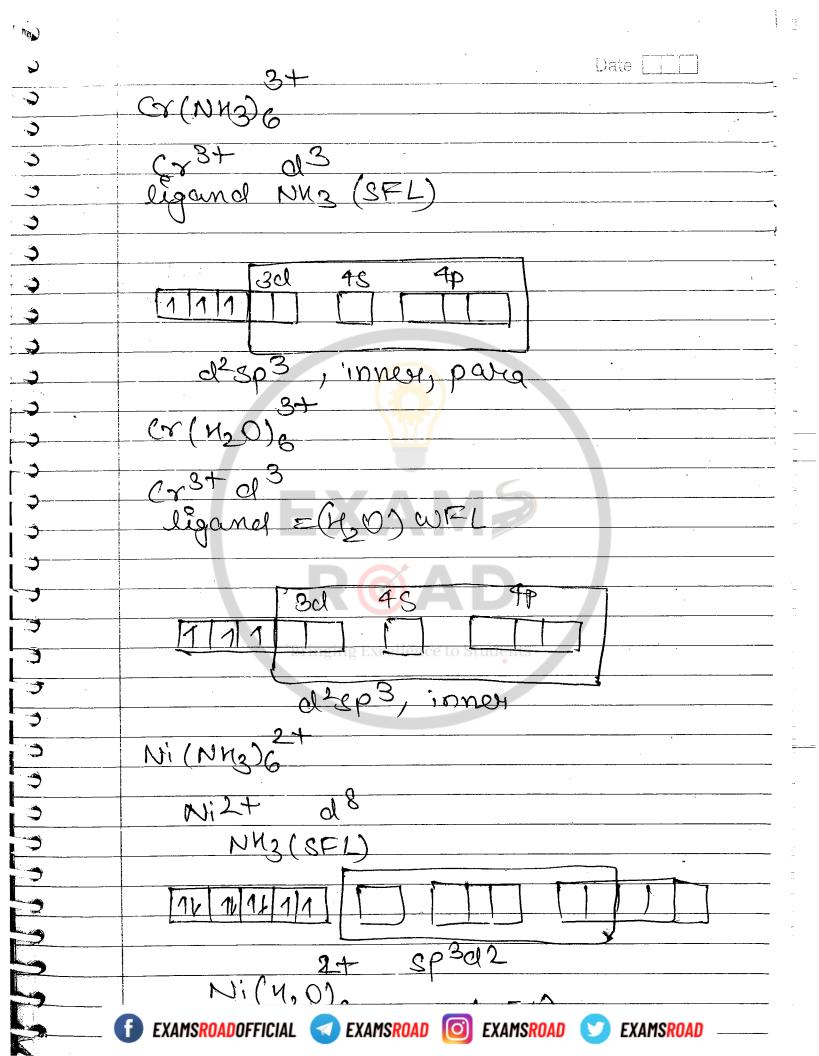
	Date
	VALENCE BOND THEORY & COORDINATION
	COMPOUNDS -)
<u></u>	
	According to VBT. Central Metal Ion
	predictes centracent orbitel equal to its coordination no. These vacant
	its coordination no. These vacant
	orbitals included by and
	form equal energy hybrid orbitals
	form equal energy hydroid orbitals are compe
	SULTION at 30 10 MEM. SUCOULATION
-	which defines geometry around
	CMI,
	CN Myb geo
	2 Sp linear
	3 Sp2 +riagonal planay
	4 "Bringing Excellesse to Students" & Jetrahu
	135 (dxydx2 dy2) -la
	$dSp^2 \left(dx^2 - u^2 \right) = ds m$
	1 (1) 39. poorwy
	5 olsp3/3p3d T.B.P
	dep3/503d Square pyramida
	6 of sp3/9030/2 Sq. bipo ramidal.
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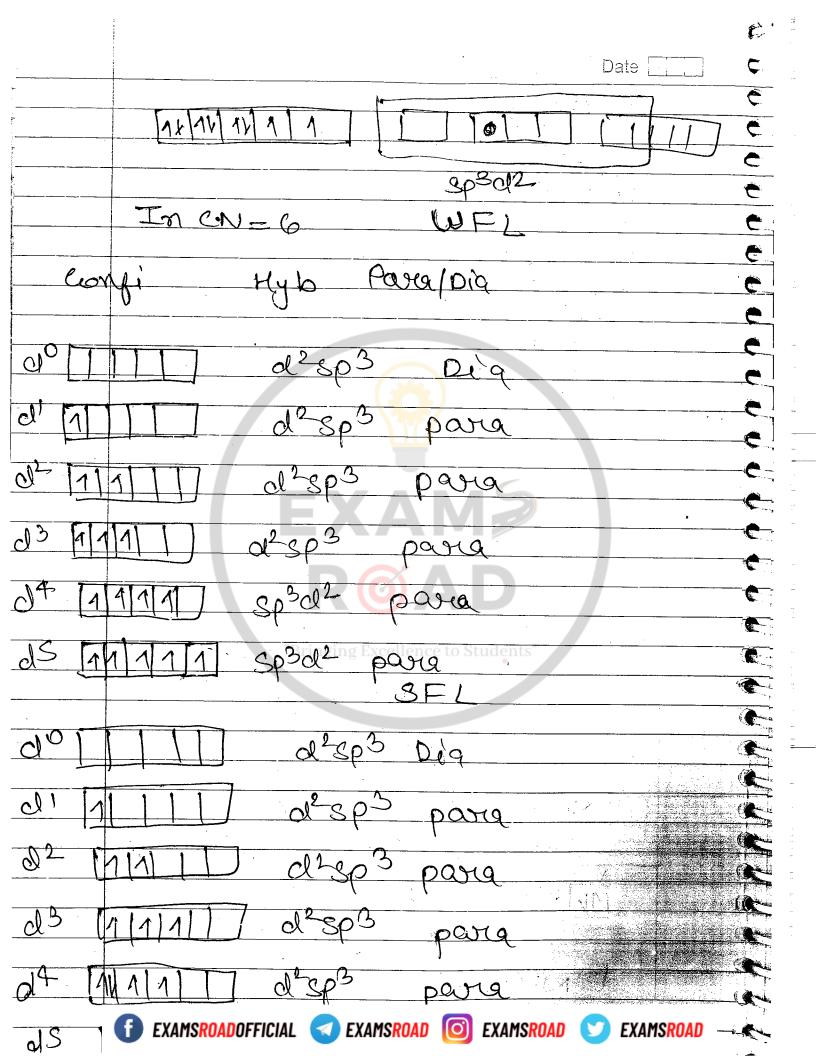
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	perticipate in hyb.	
<u></u>	Classification of tegands on the buses,	
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· · · · · · · · · · · · · · · · · · ·		C I
	SFL (Strong Gield Ligand)	
	SFL (strong field ligand) Sorm strong bond with CMI	
	WPL -) (weak) form weale	e [
	Peroperties of SEL	e
	' N A D	
	good donor size b	
	Lewis base - ve charge 1	
	ENJ	
2)	good ecceptor	
	SFL-9 C7P>N	
	WFL O, halogen	
· · · · · · · · · · · · · · · · · · ·		
	oundred strength of ligand	6-
	CYN707FI	
	Ce.	
	★ EXAMSROAD OFFICIAL ★ EXAMSROAD ★ EXA	

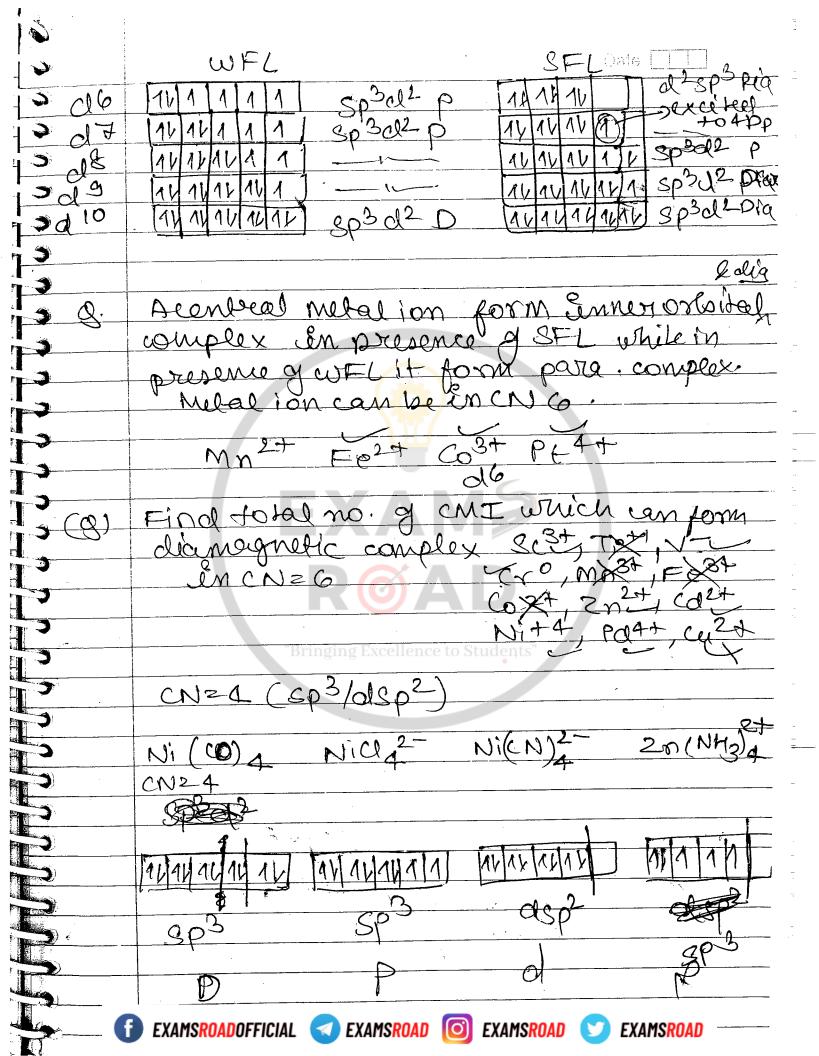
Date 🔠 SPECTROCHEMICAL SERIES -It is a relative etrength of liganol in de particular CMI I < Br < SCN < Ce < 82 - < NO3 < F < 04 -The Bure Iha @kalu Shamu Nei Fulle teath < C43000 < C, O4 < H20 wake pan blowg < NH2 × Py < en & dipy < NEST (COTA Navin chandry in divo Amman parene Saxona < NO, - < CN - < CO Naan Serva Ko Cowy-Orthun scale the In presence of strong field ligand es are forced to pain so that no gunpairedes value of spin only magnetic moment complexes and called low spin complex. In presence of WFL there is on no g unparted only magnetic moment is high in comparison of how sprin complexes such complexes are called high spen complexes.

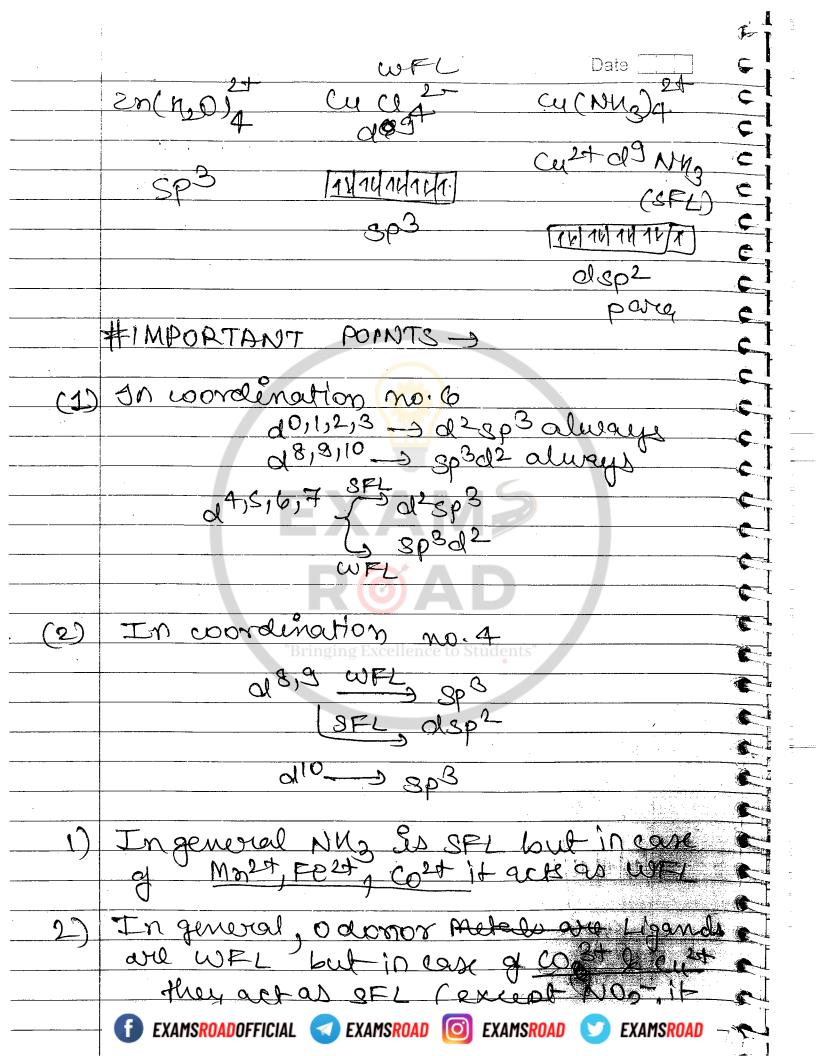
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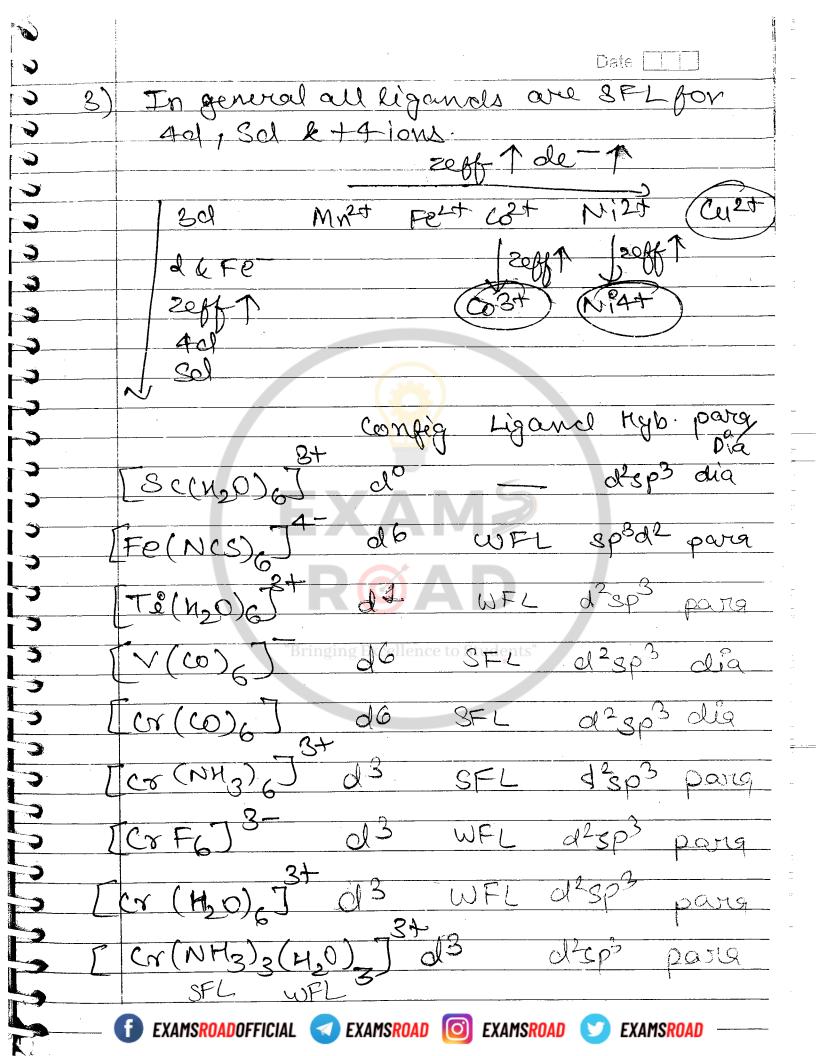


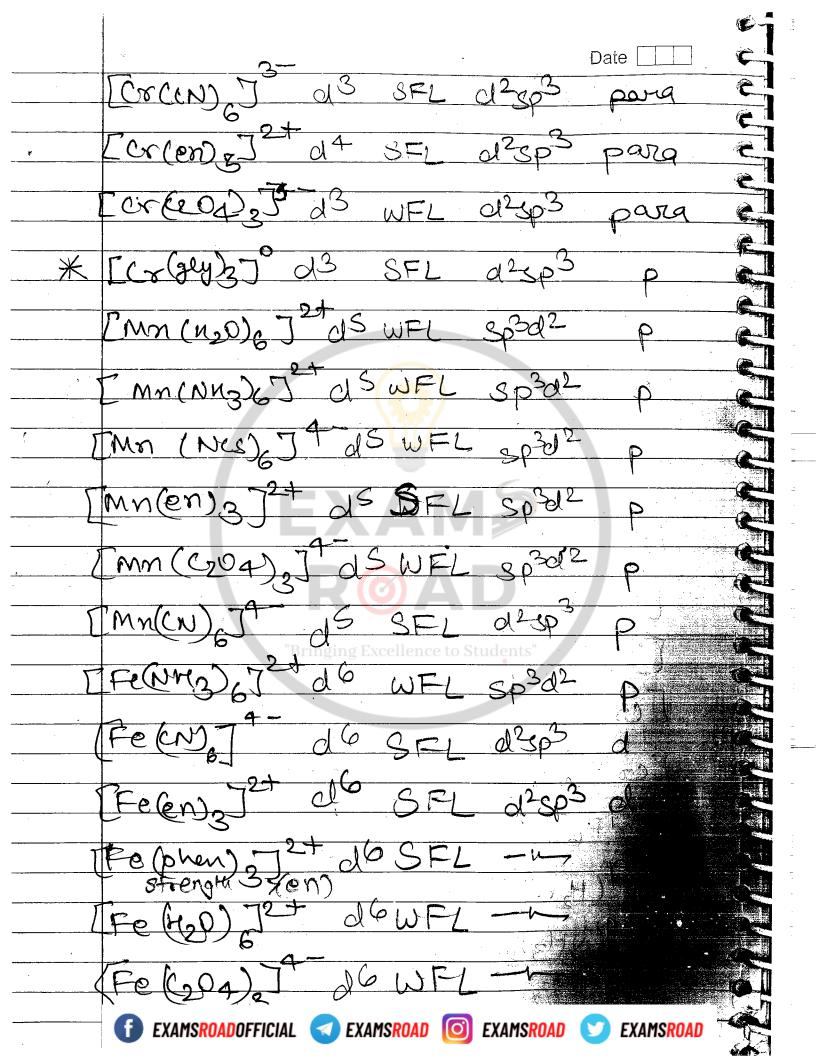


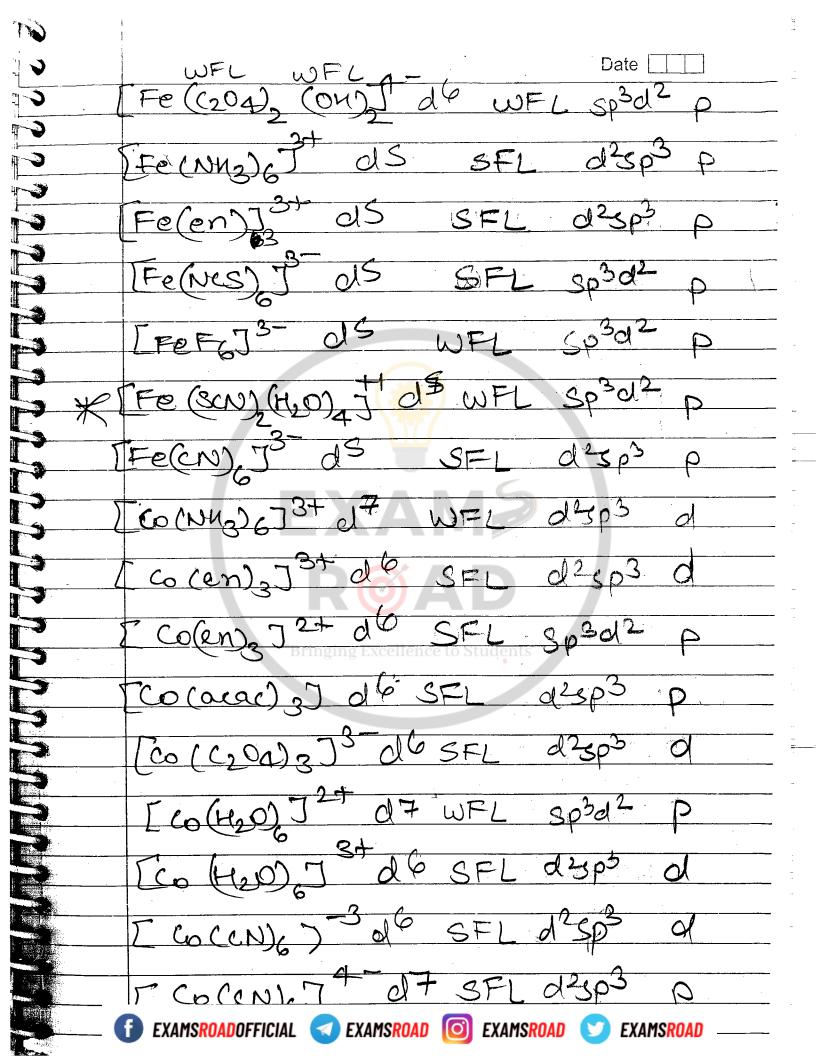


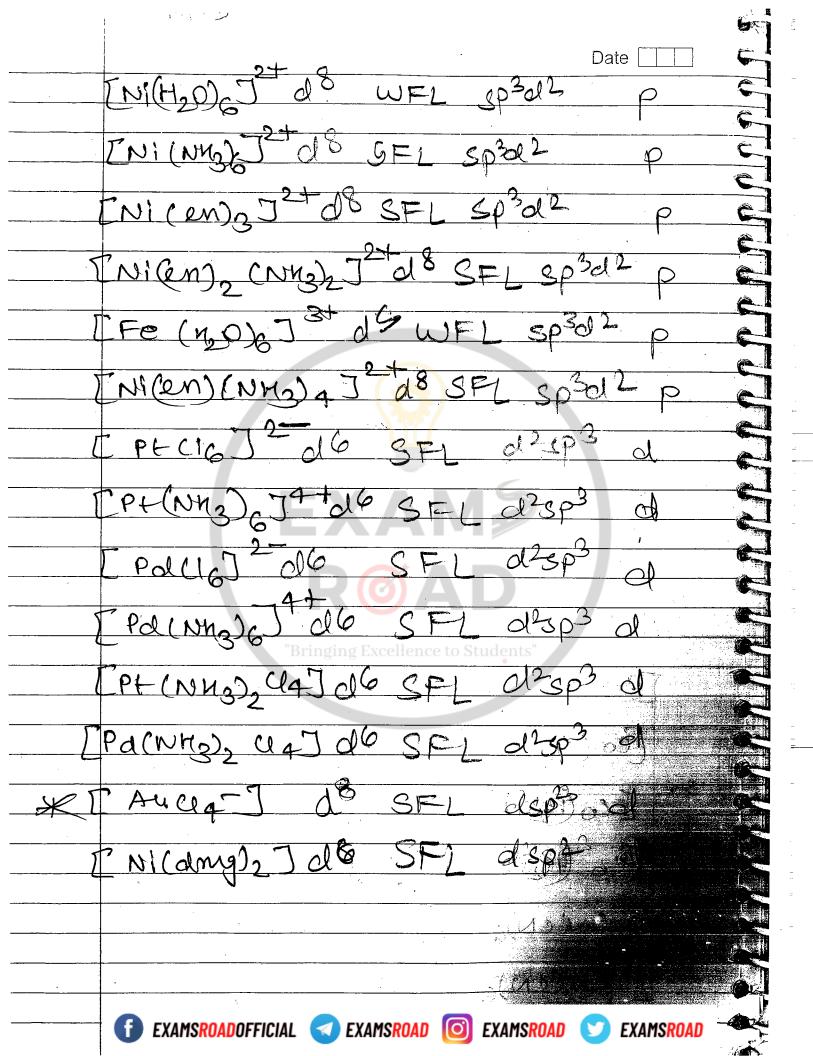


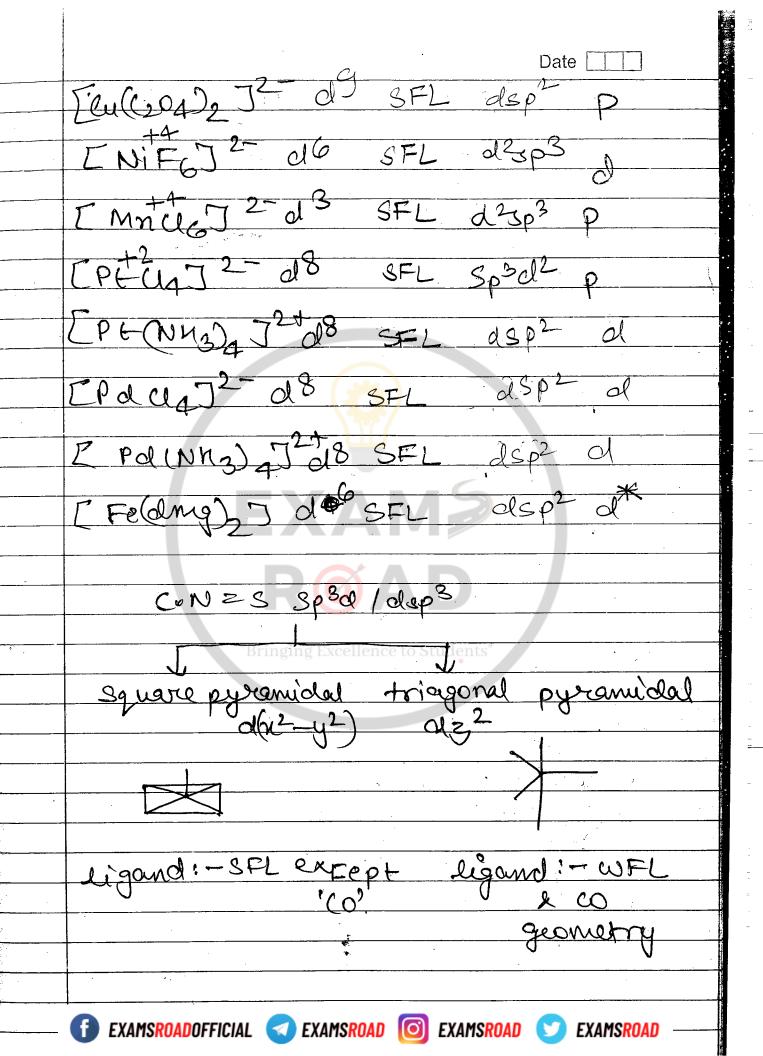






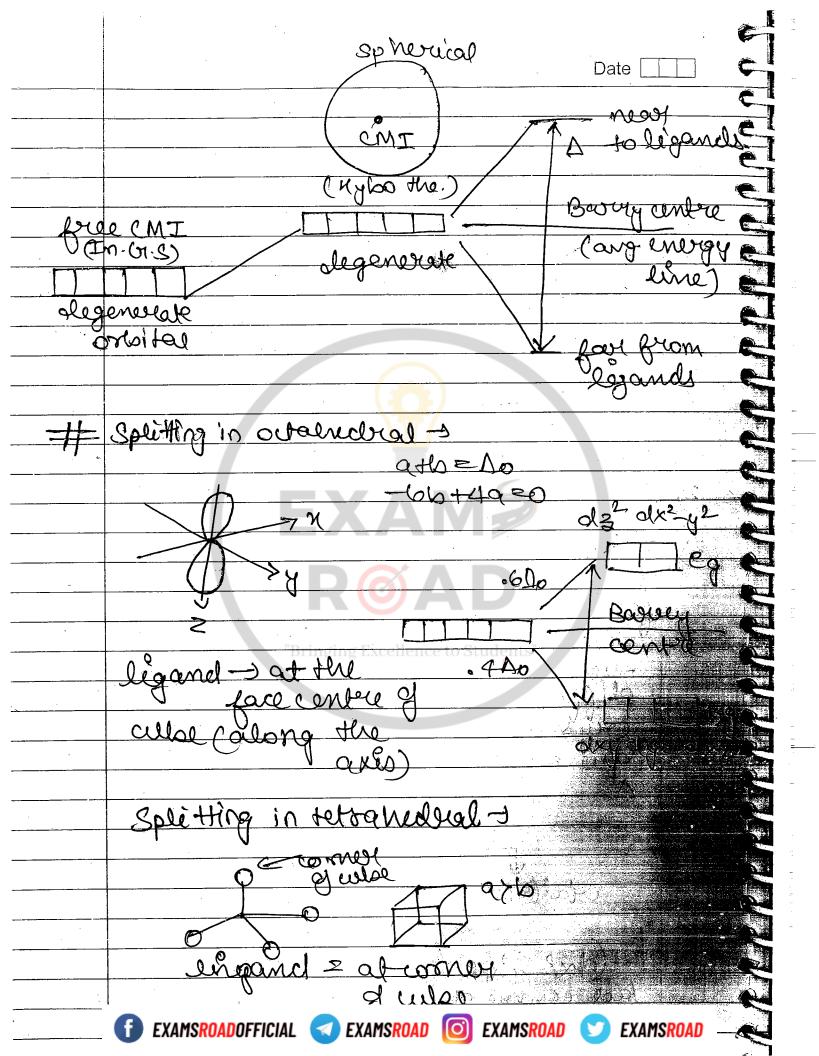


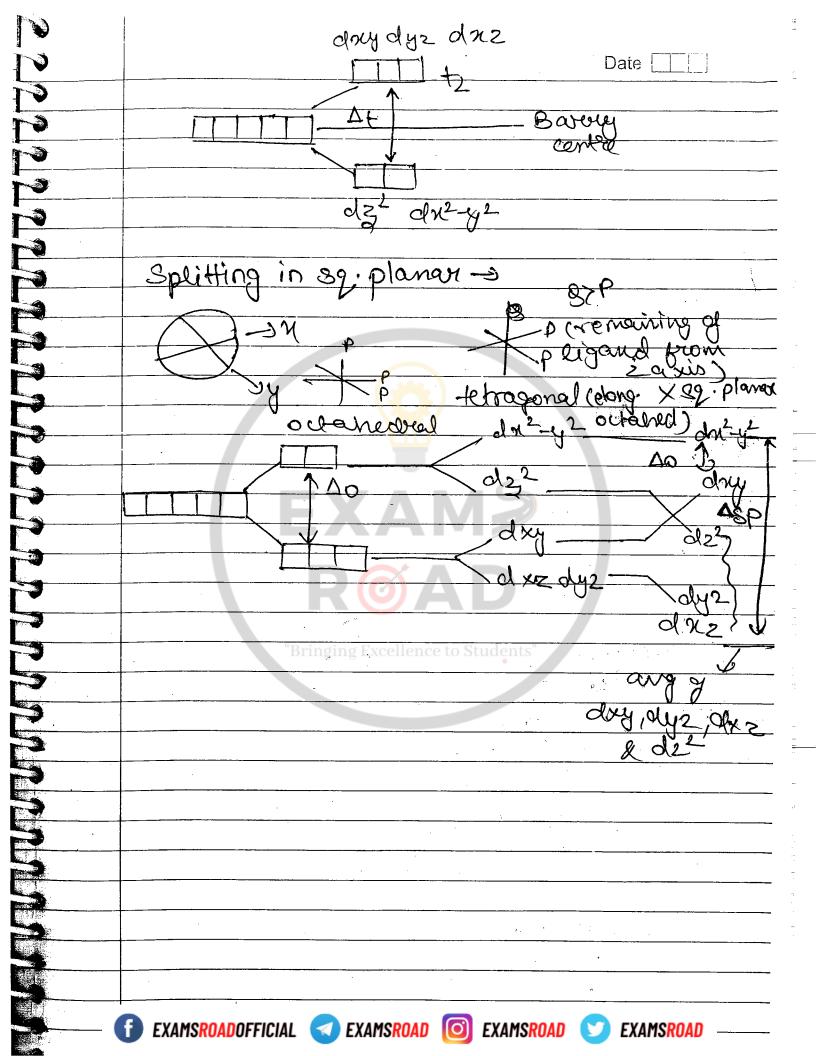


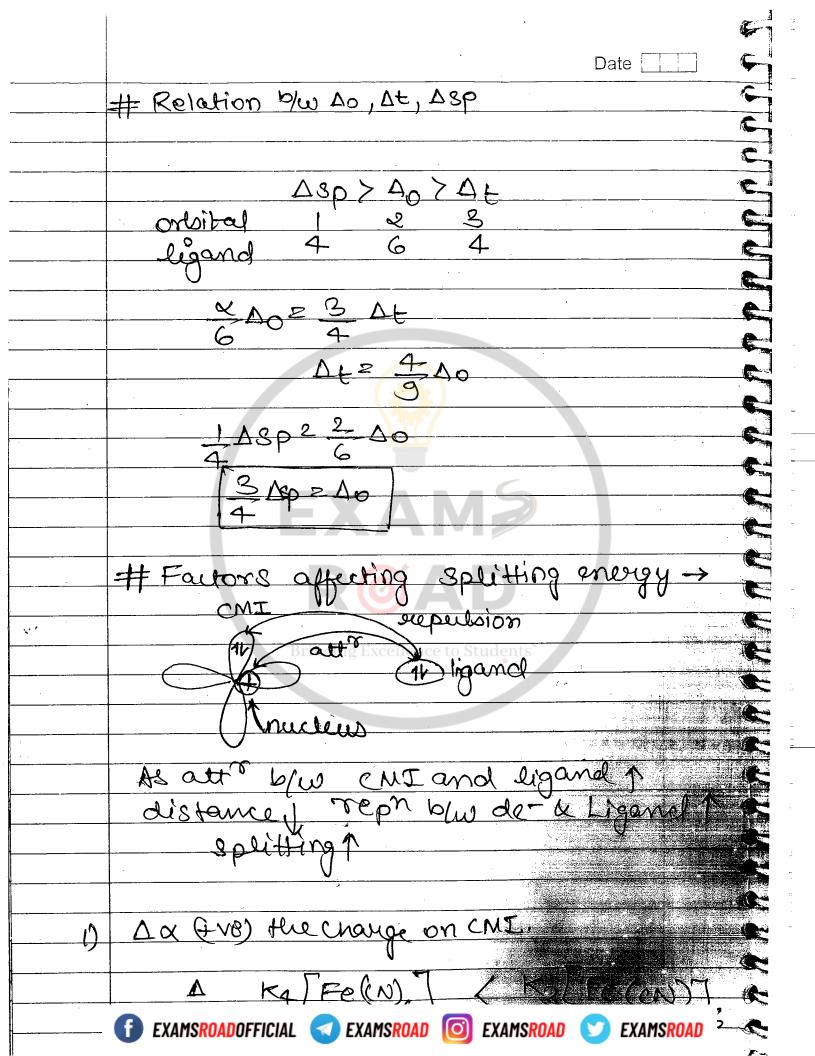


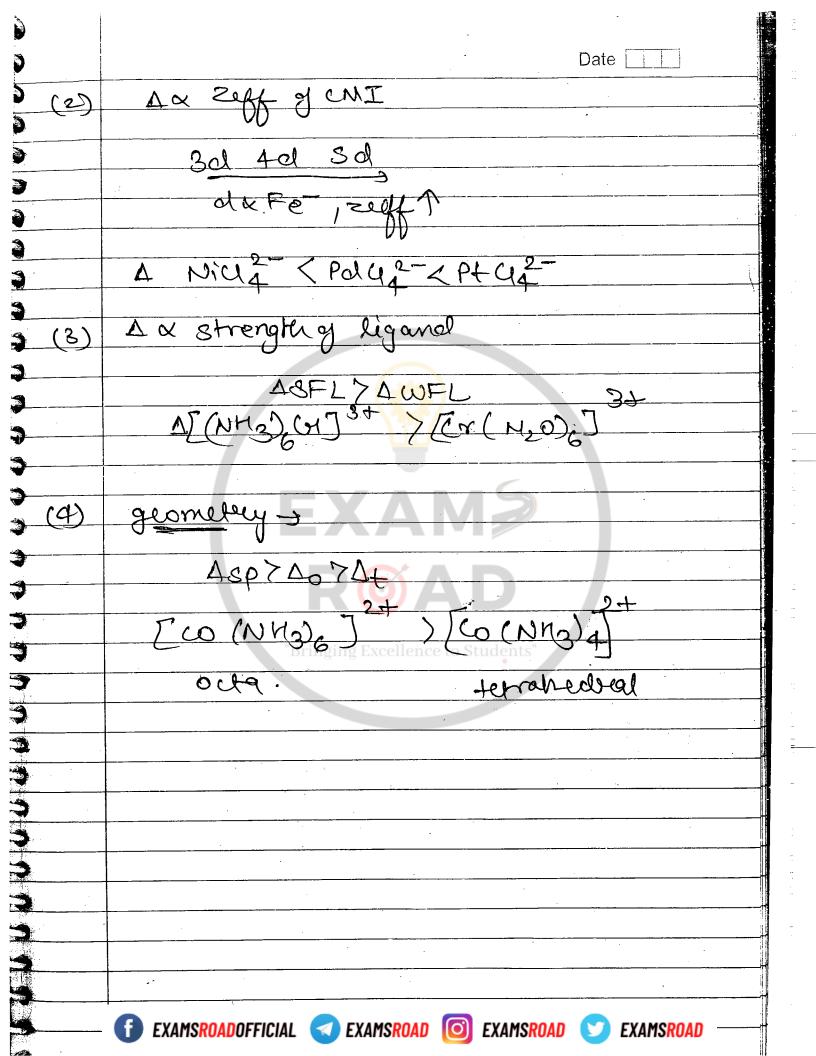
	# <u>.</u>		
		Date	
	example Fe(CO): TBP		
	My(co) TBP		C
	Co(co) YBP		C
		•	C
	CUCOS TBP NICNSSP		
	=> Fe (10),		
	0.16.1.2		
	Fe (01.8) 3016 432		_=
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, · · · · · ·	# Limitations & VBT-)		
	oranga xcellenc Ae vinden a Li	- \	
1)	There are so many Assumption	<u>v</u>	
	At al par material ?		
2)	It does not explain I		
<u> </u>	Color H Ol 100 of		1
K	Stability of complexes		
()	SFL & WFY		400 B
	The state of the s		
			K
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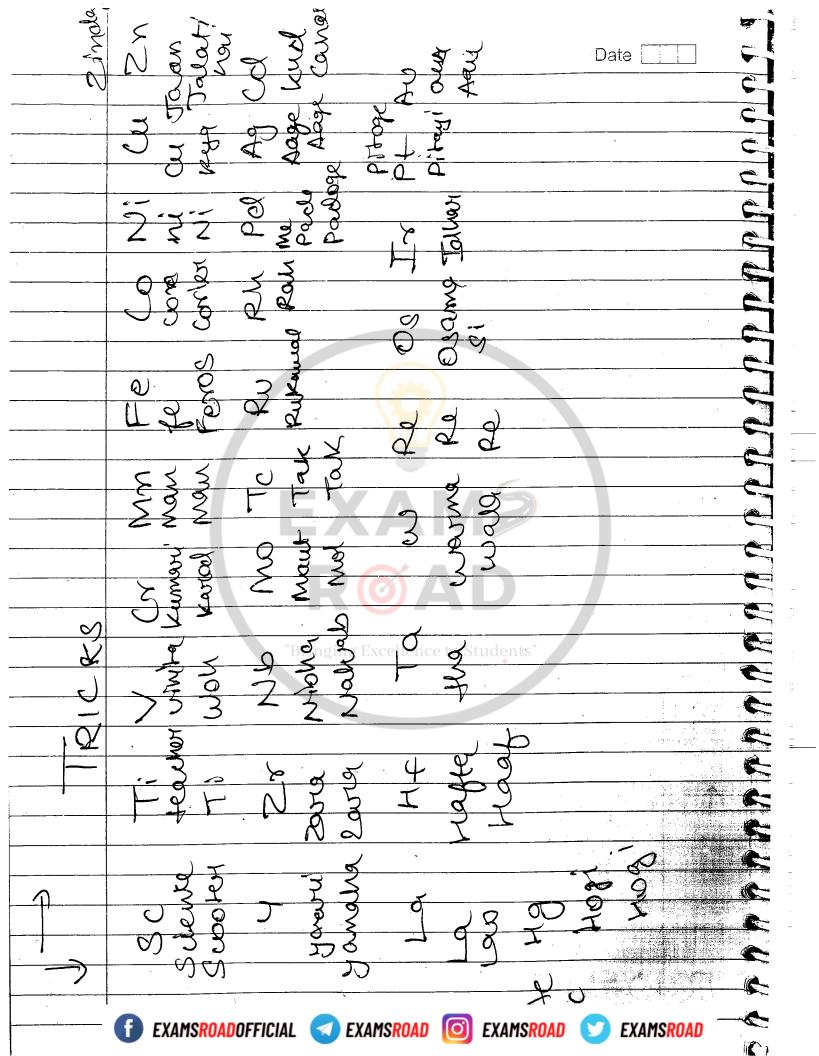
	& color of compal.
	Date
	CRYSTAL FIELD THEORY
3	According to CFT central metal ion equal
•	to (tre) point charge. Anionic legand
	= negative point charge Newford ligand
	equal to Dipole, Sointeraction b/w ligard
3	LCMI is Electrostadic.
9	174
9	When ligand approaches CMI it experiences
	two types of forces -
3	Force of Attraction due to nucleus of eMI.
3	Force of Repulsion due to dorbital ets
3	of CMZ.
21	In narticular geometry -dorbited ligands
	In particular geometry & orbited ligands are near to some the d-orbited and
3	par bean other d'orbitals, so a orbitel
	experience différent-différent repulsi
	-ue porces so d'horbital aplit into
	different energy set which is called
	Crystal filled splitting. Energy aliffrance b/w orbitals is called splitting energy
	blus orbitals is called spetting energy
	donsited
	artal(along the non autal (b) whe
	1 airs (rixe)
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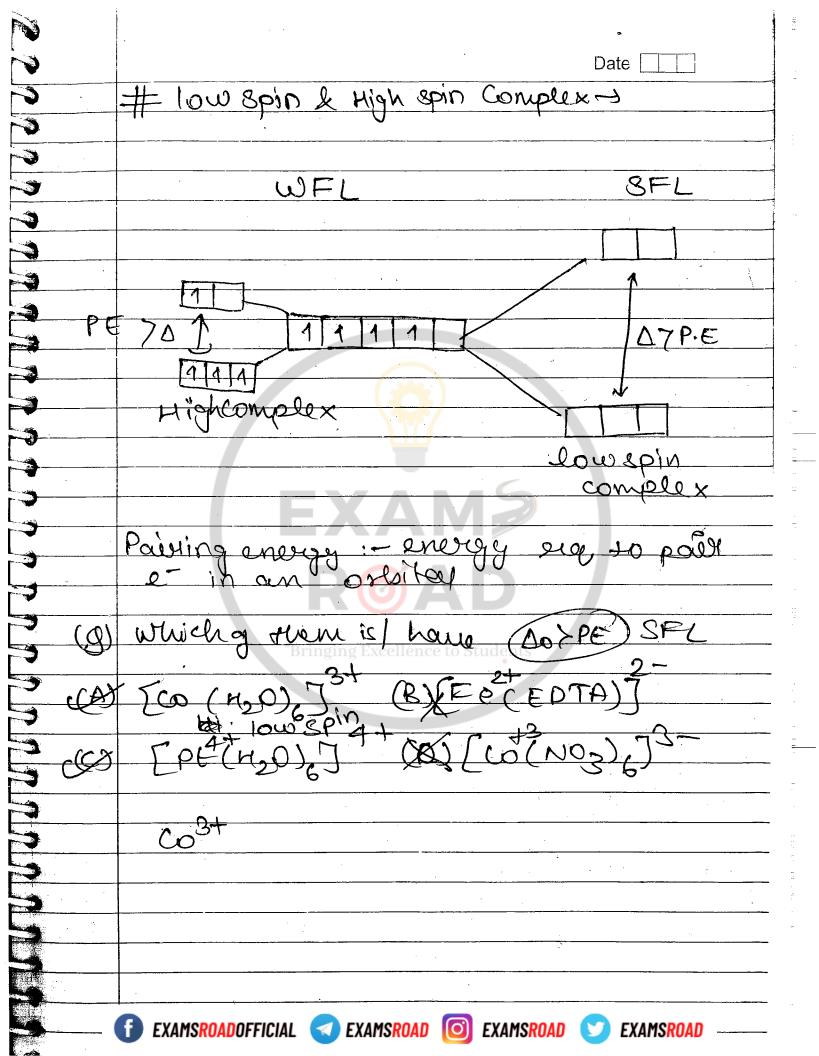




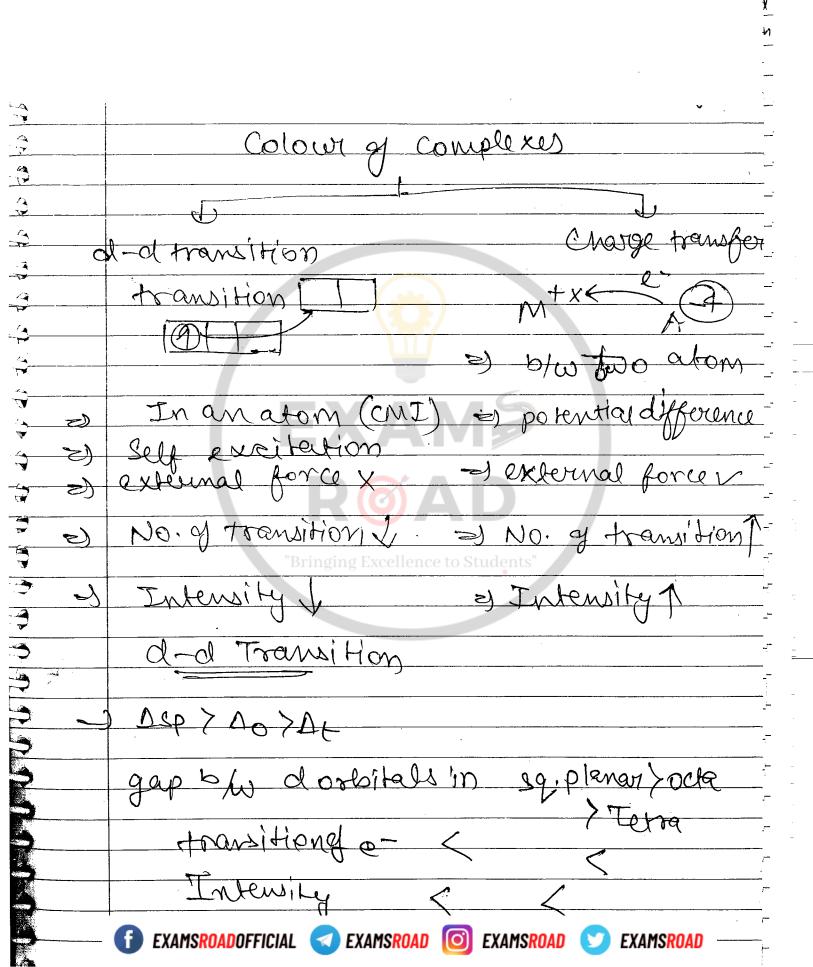


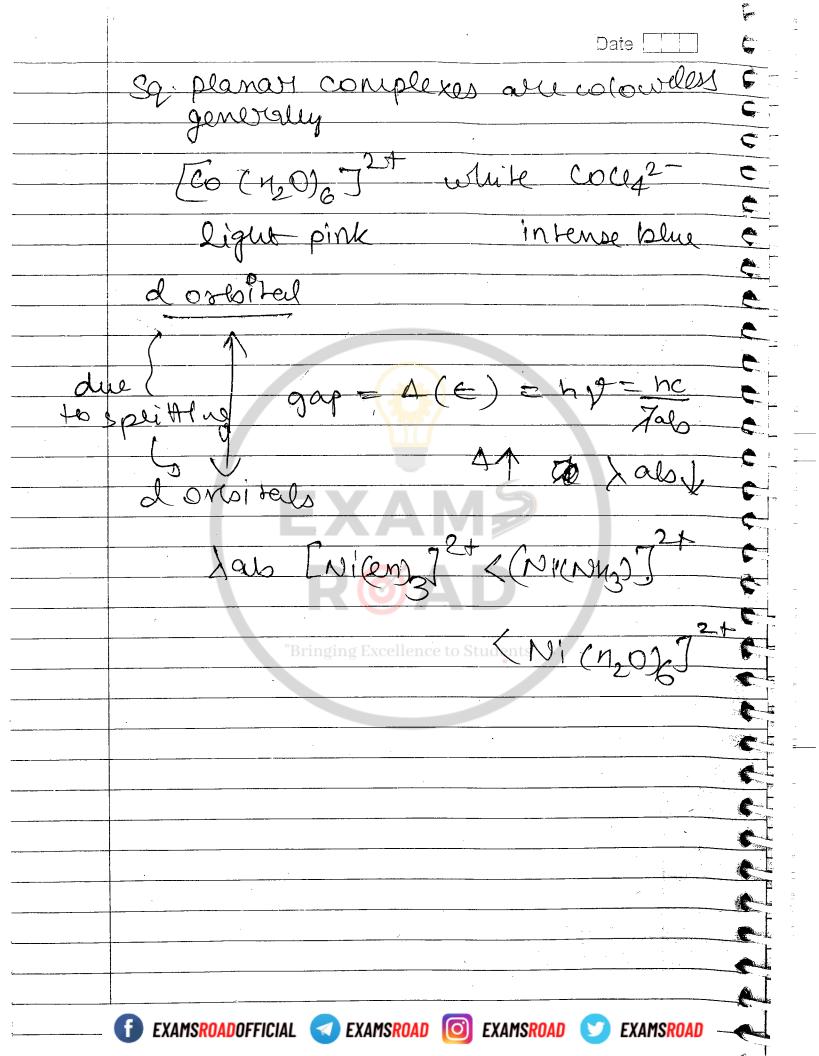


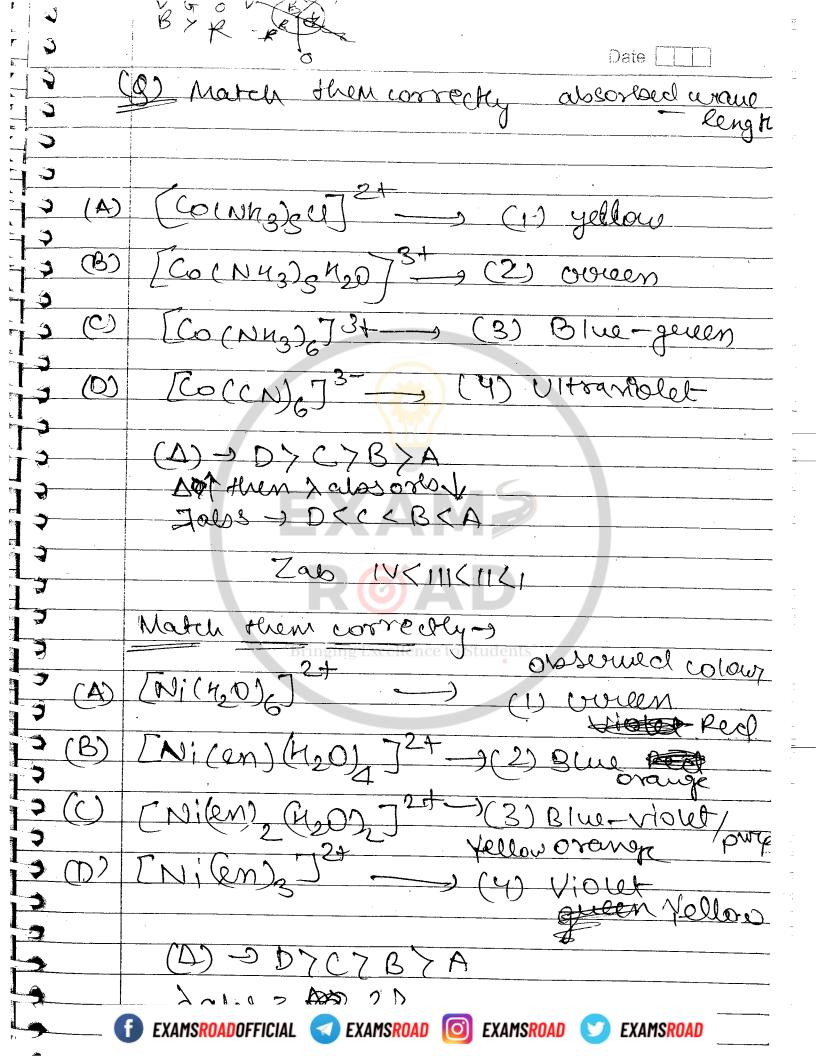




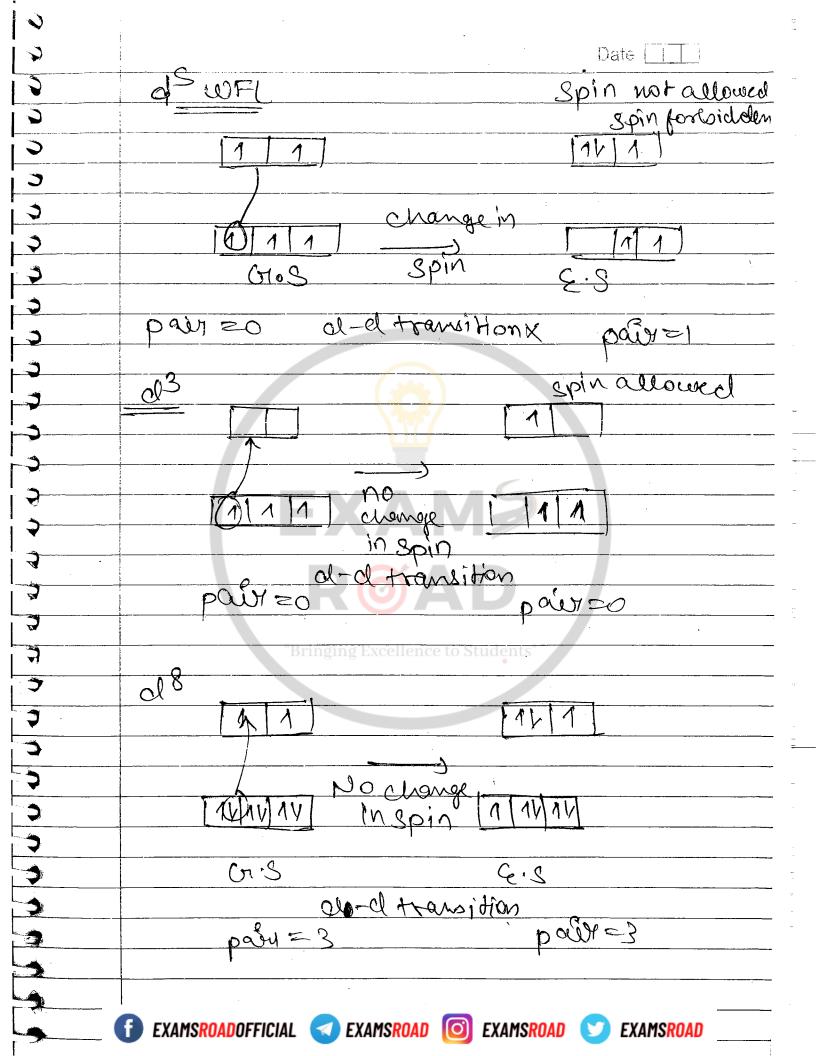
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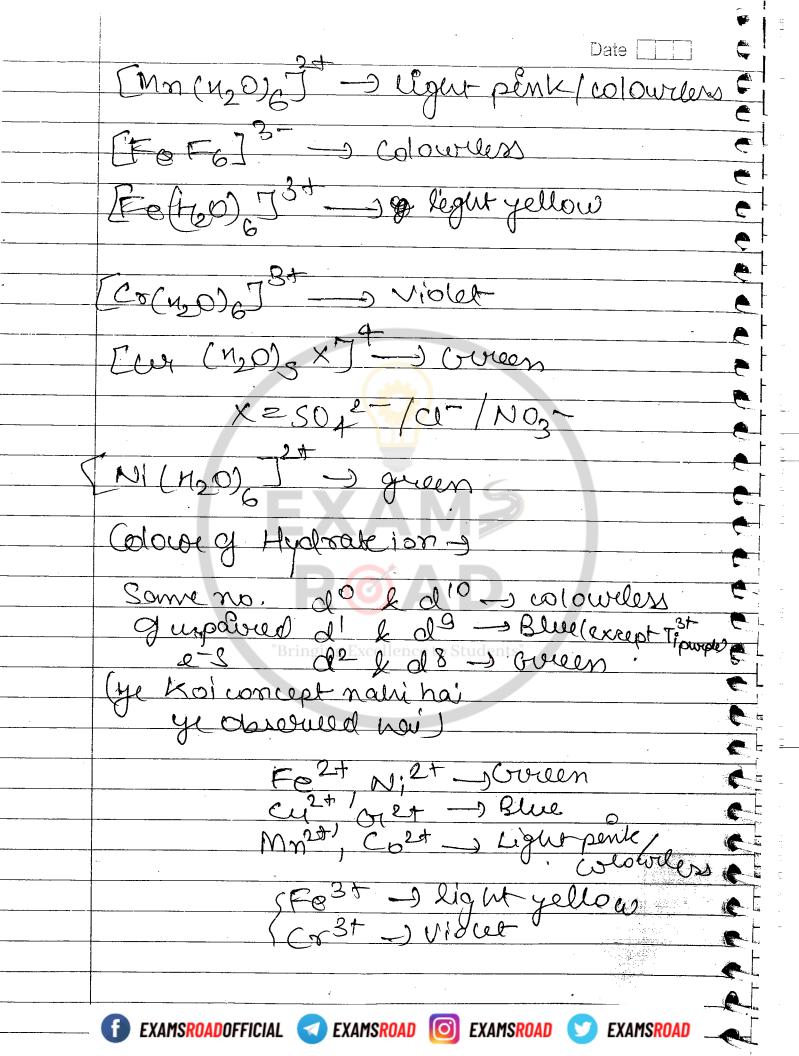






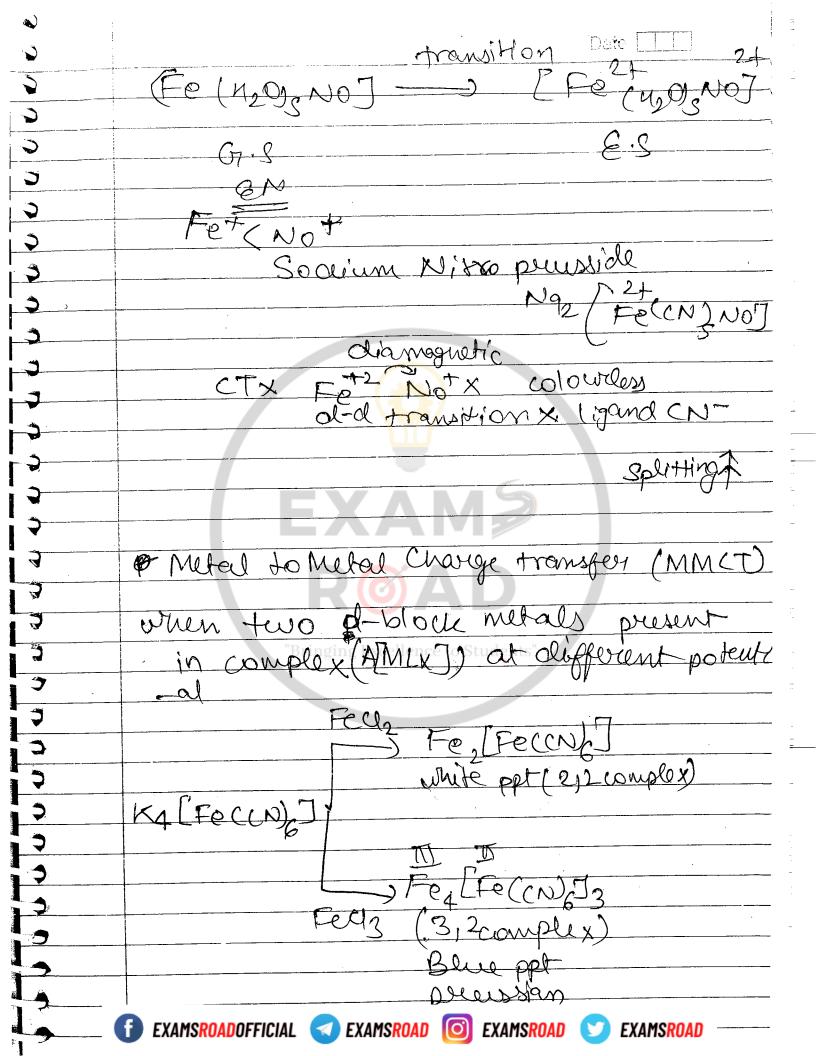
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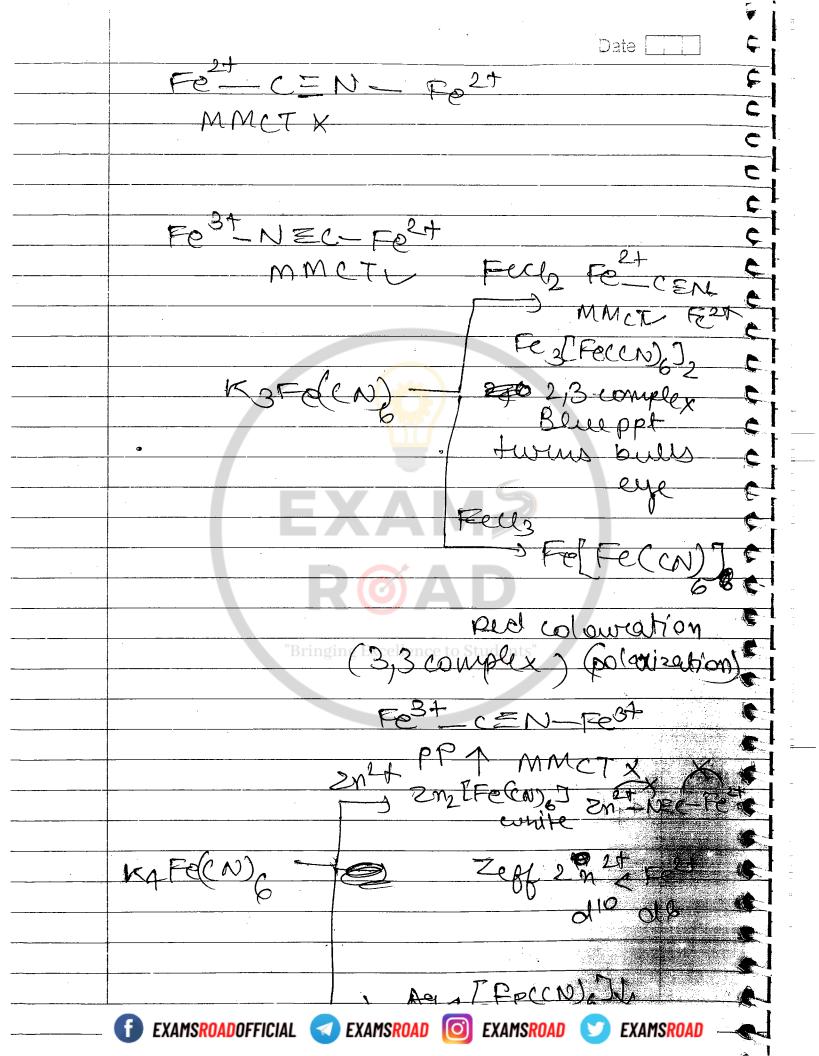


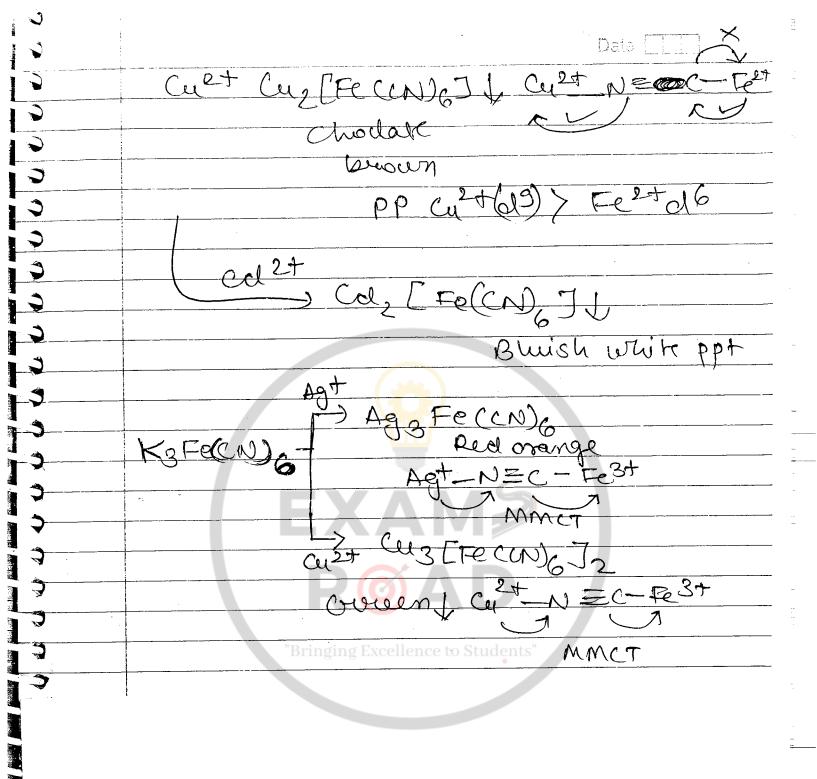


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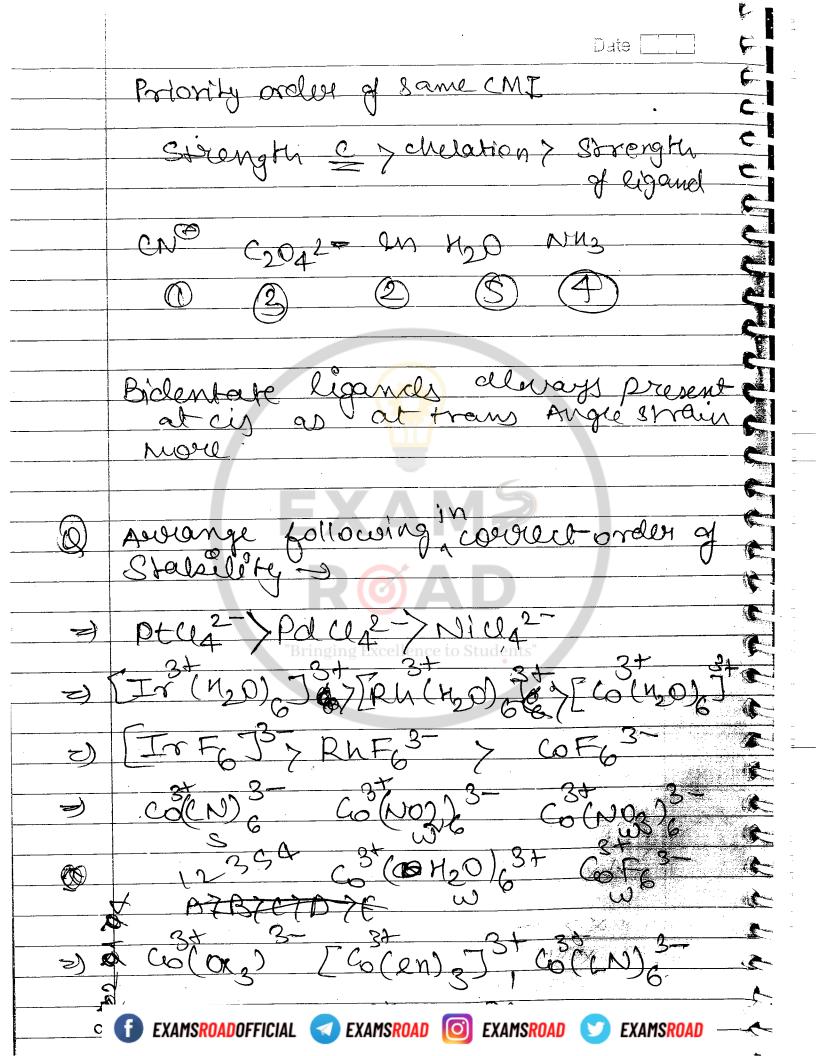
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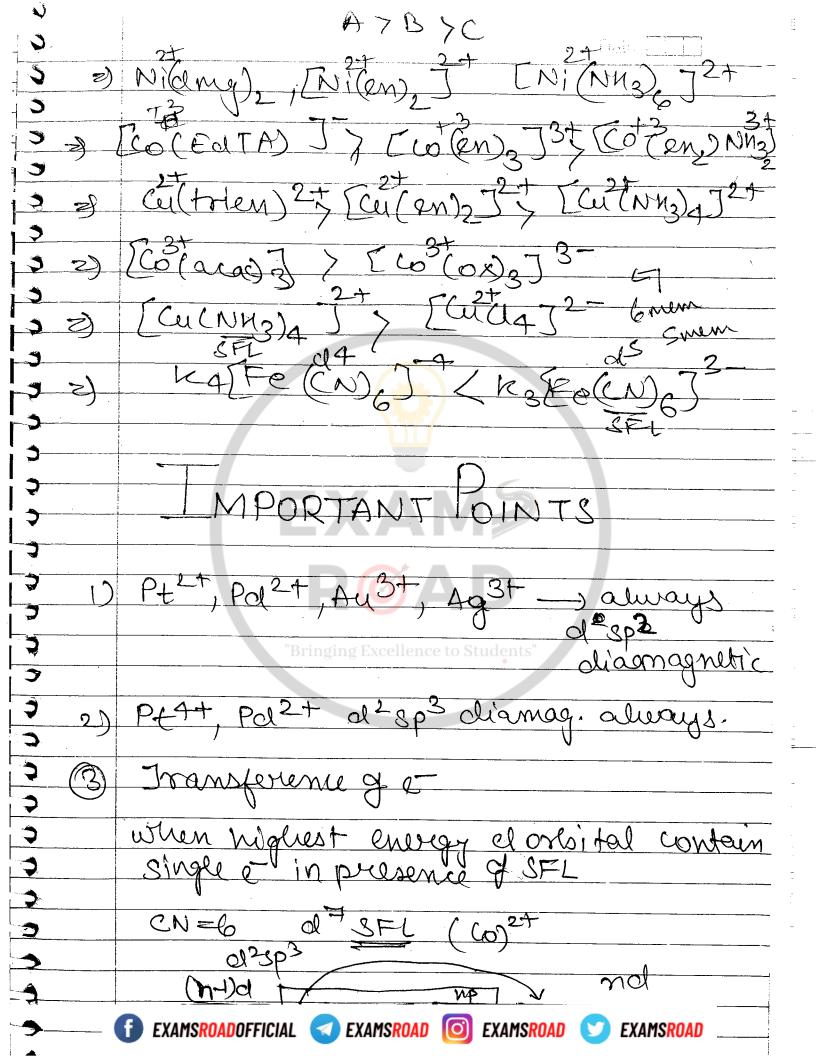
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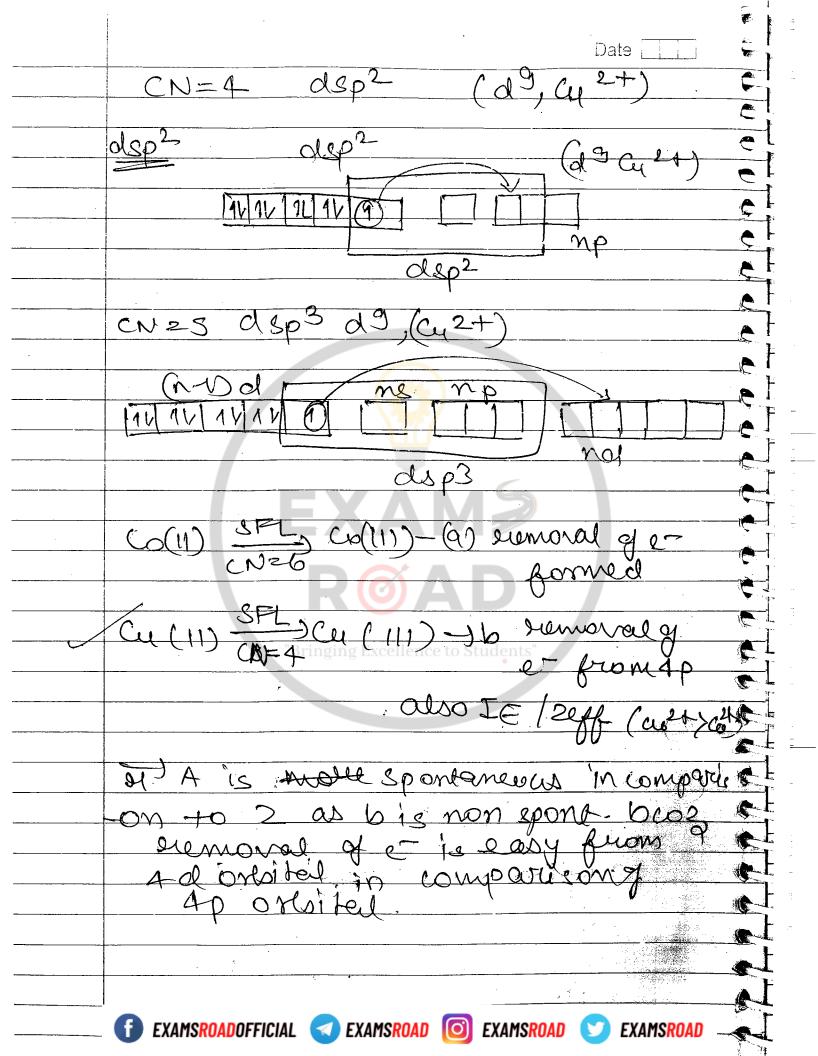
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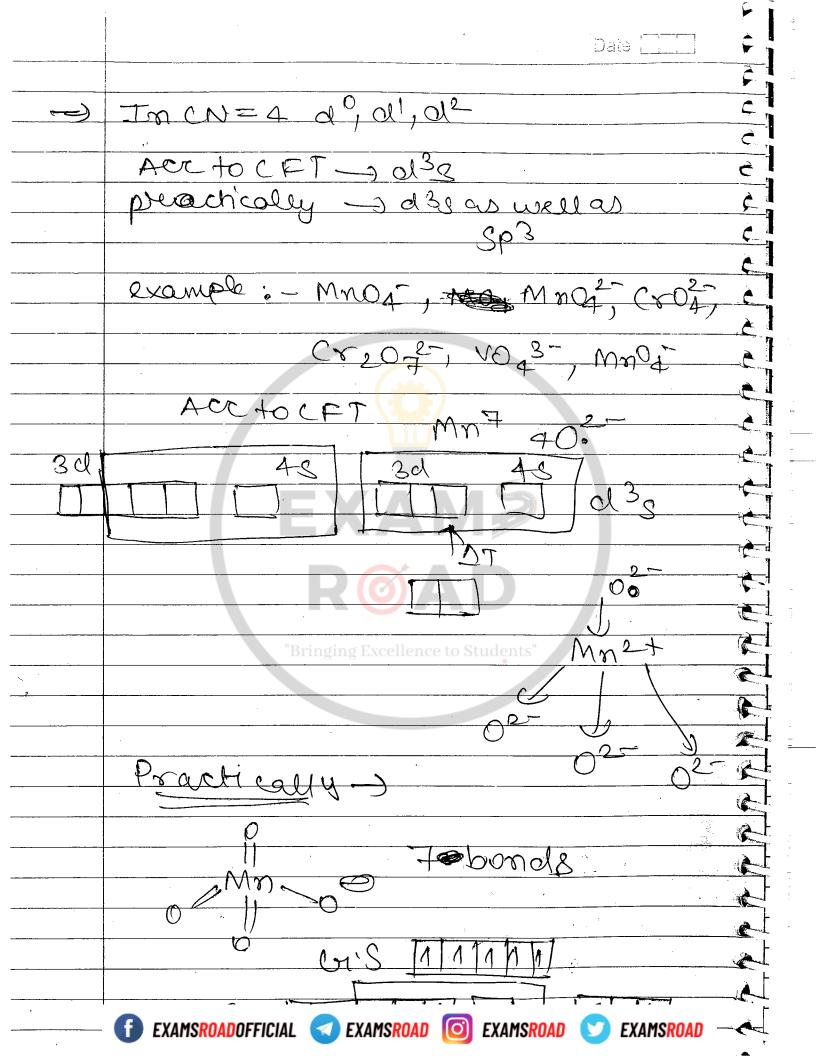
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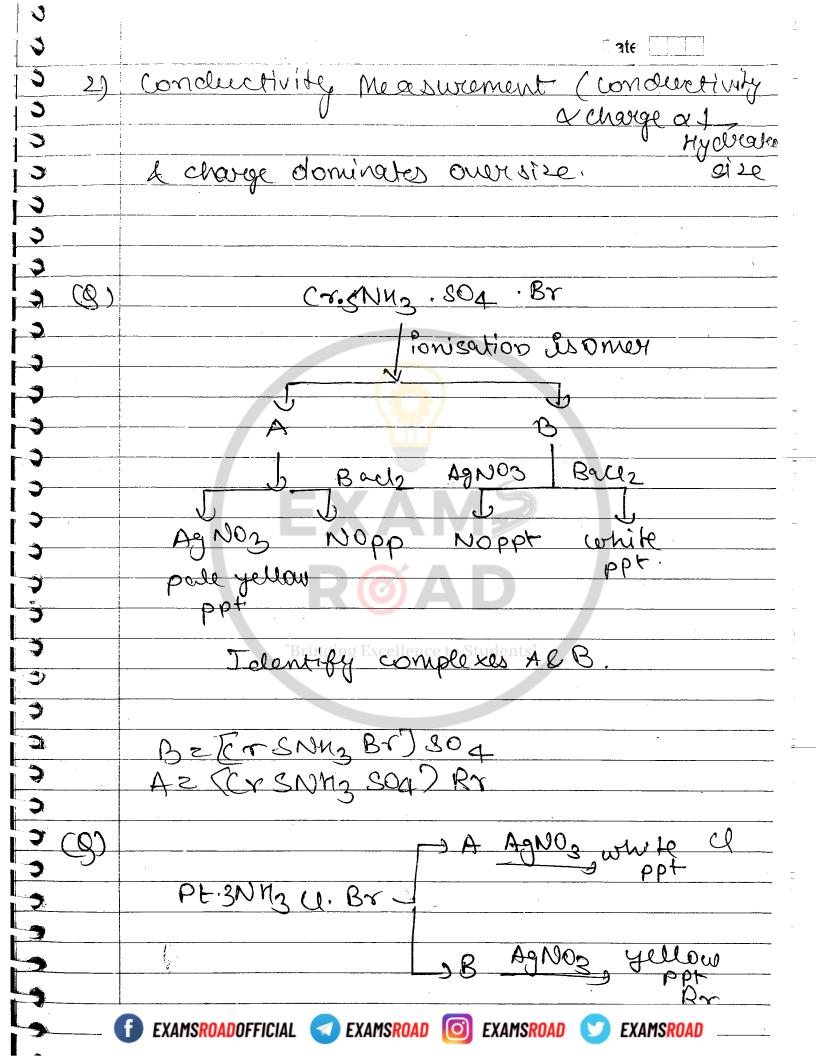


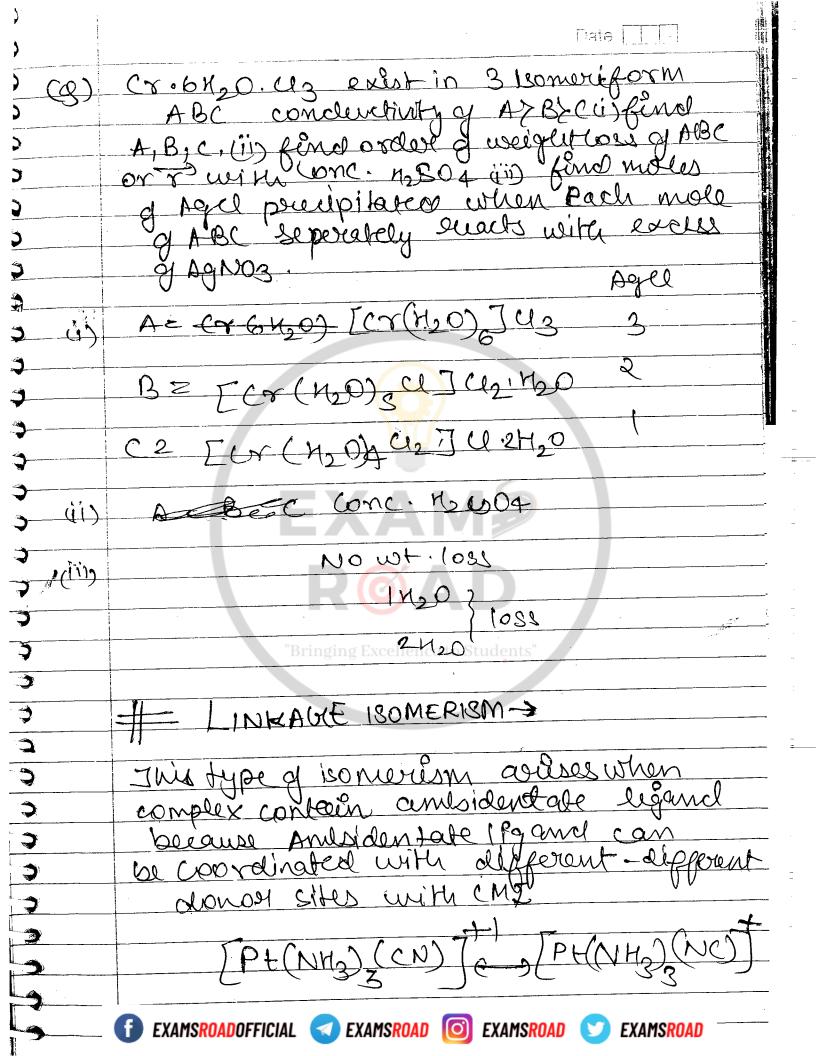


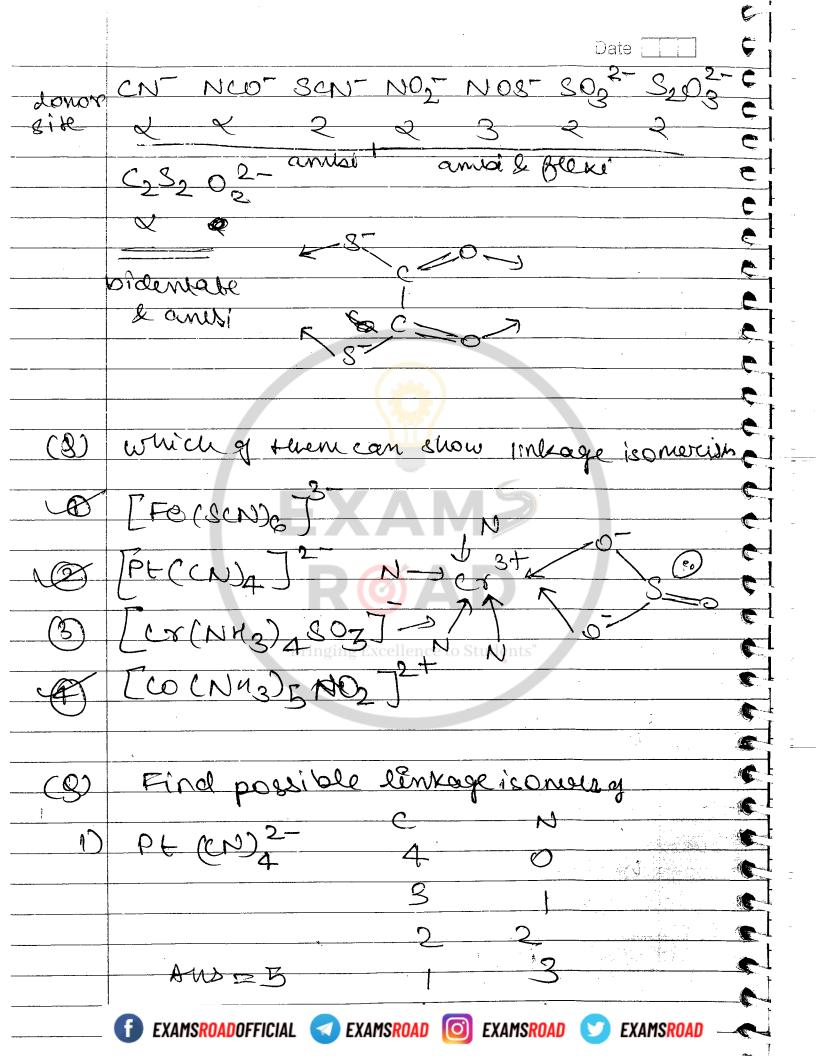


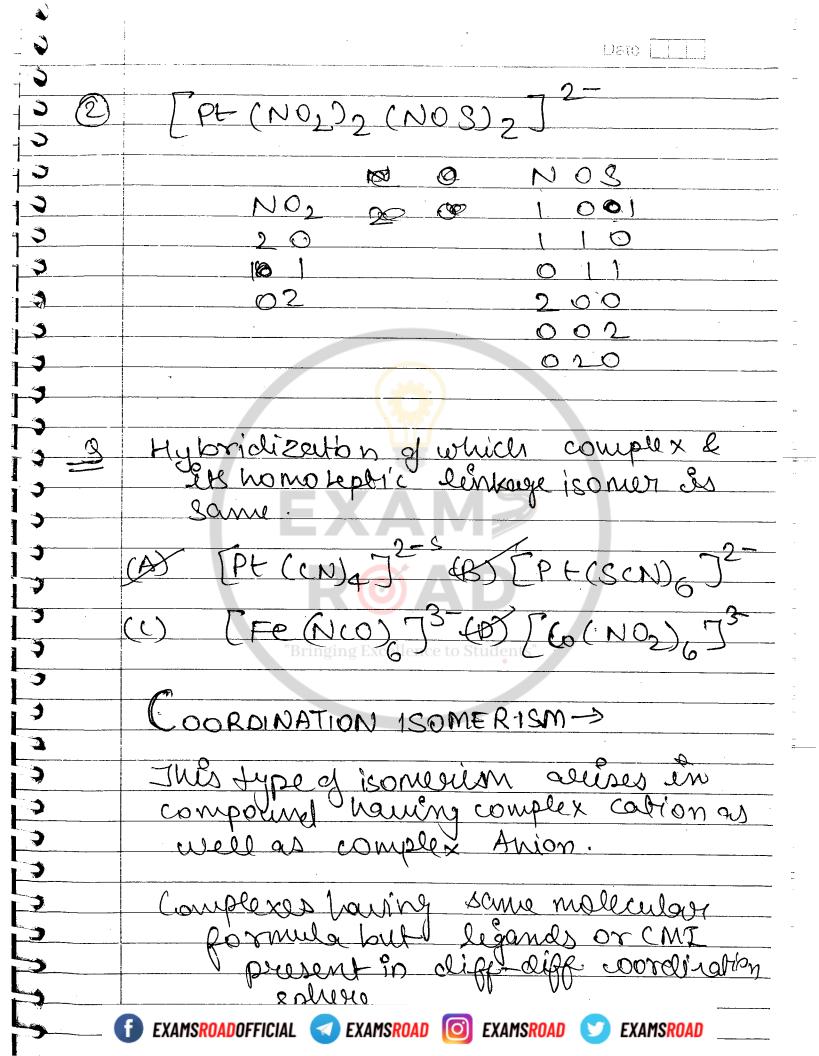


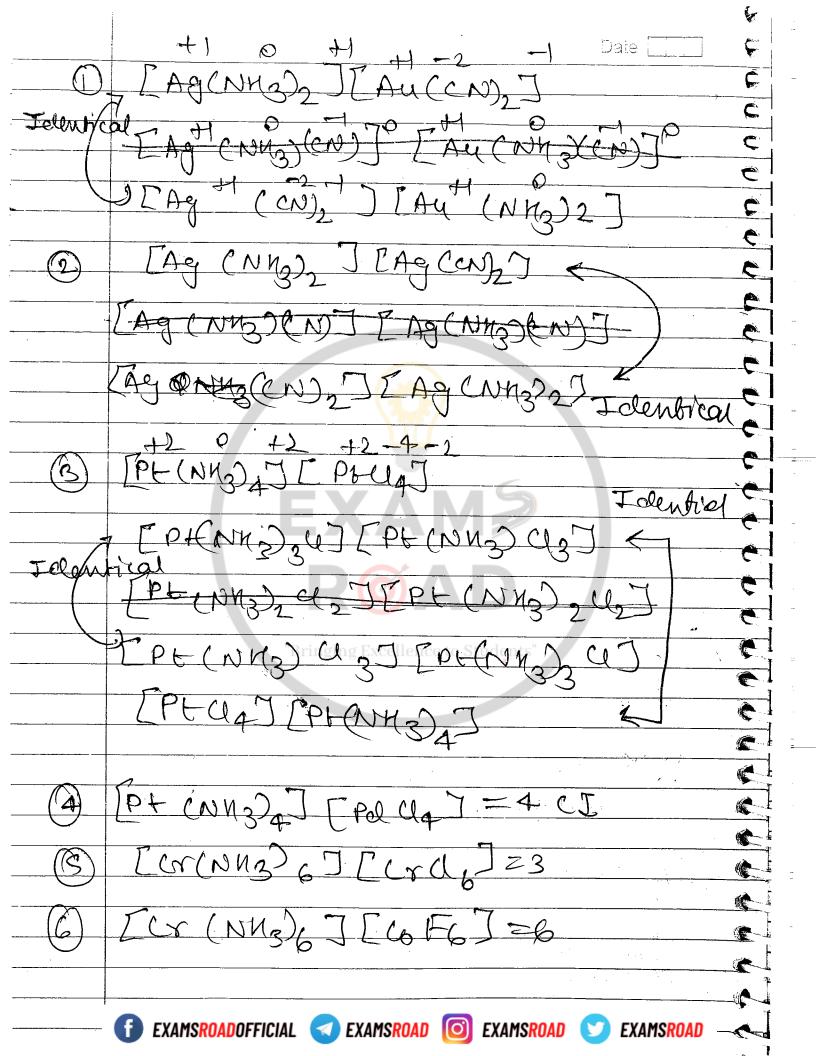
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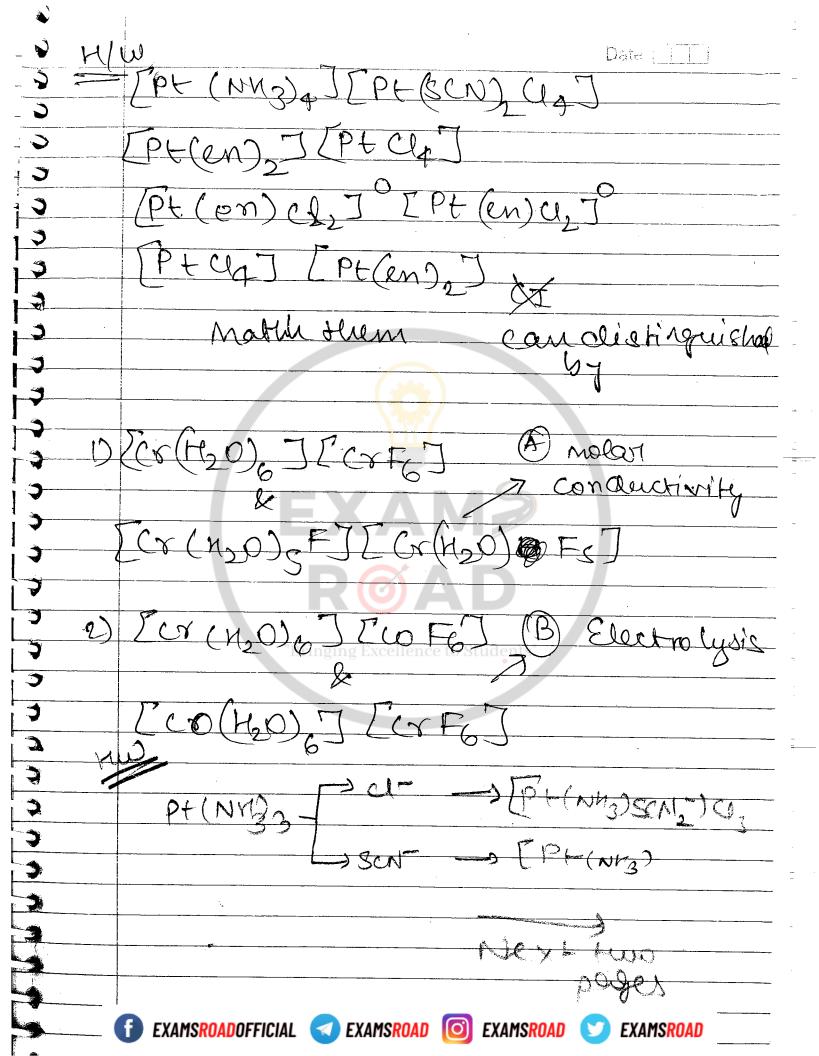




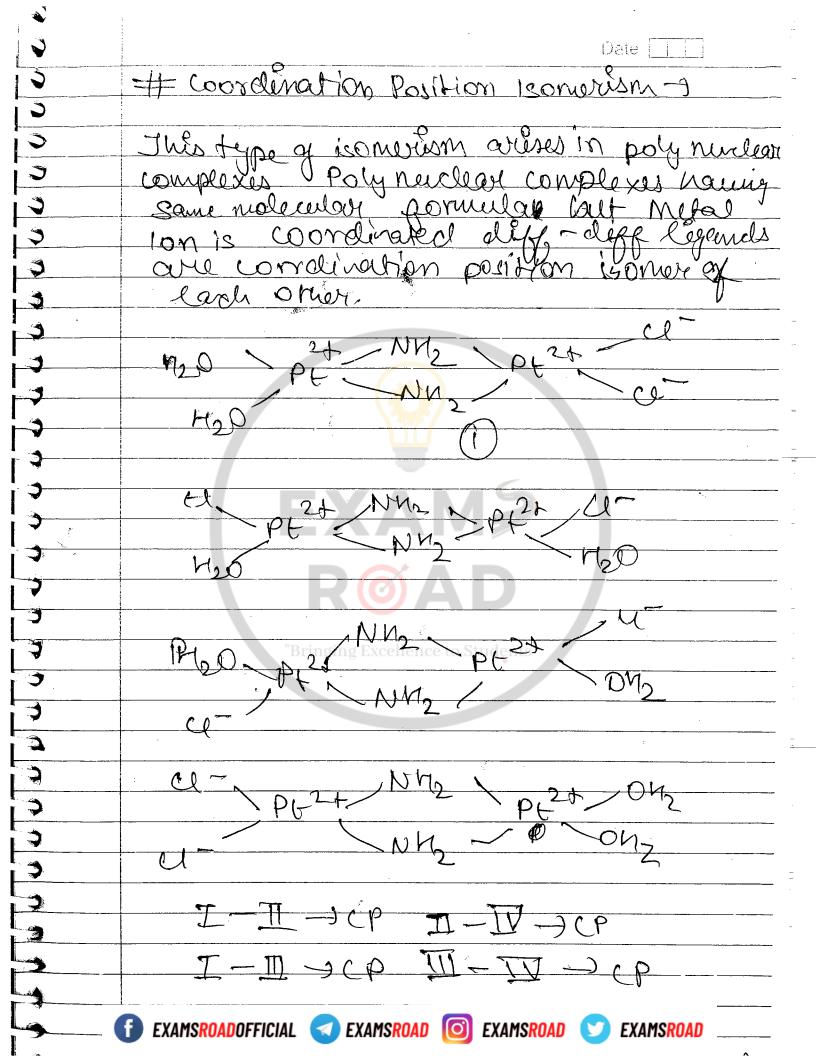


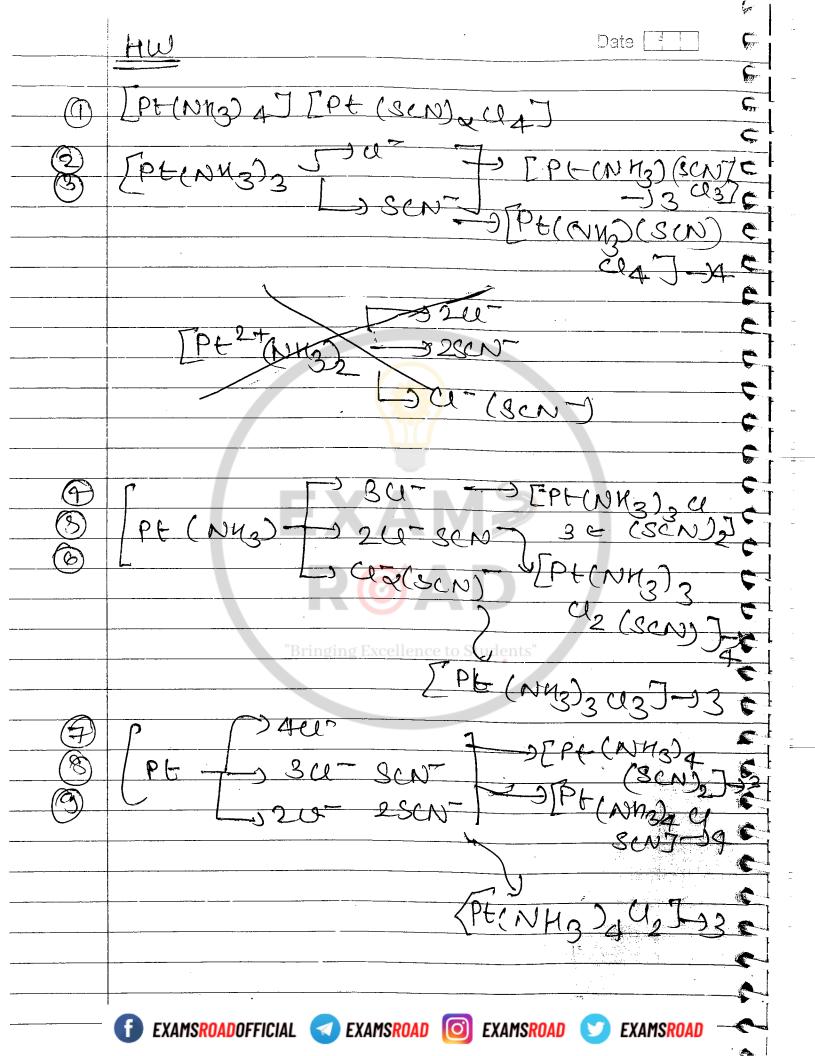




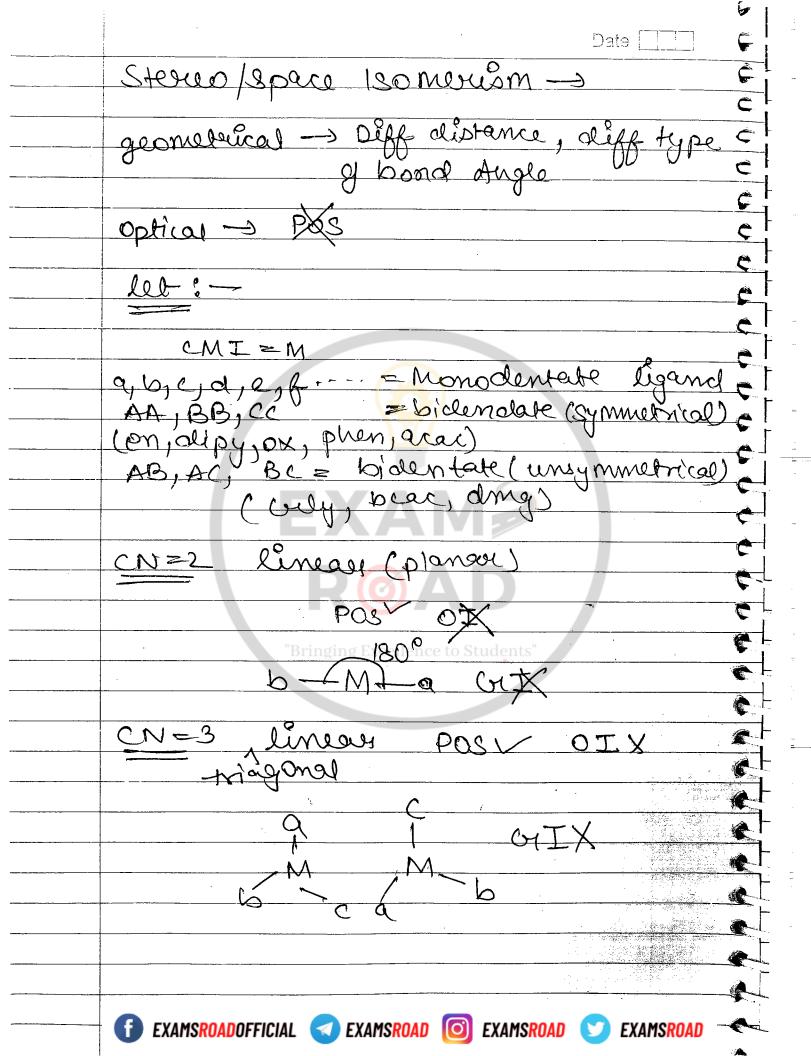


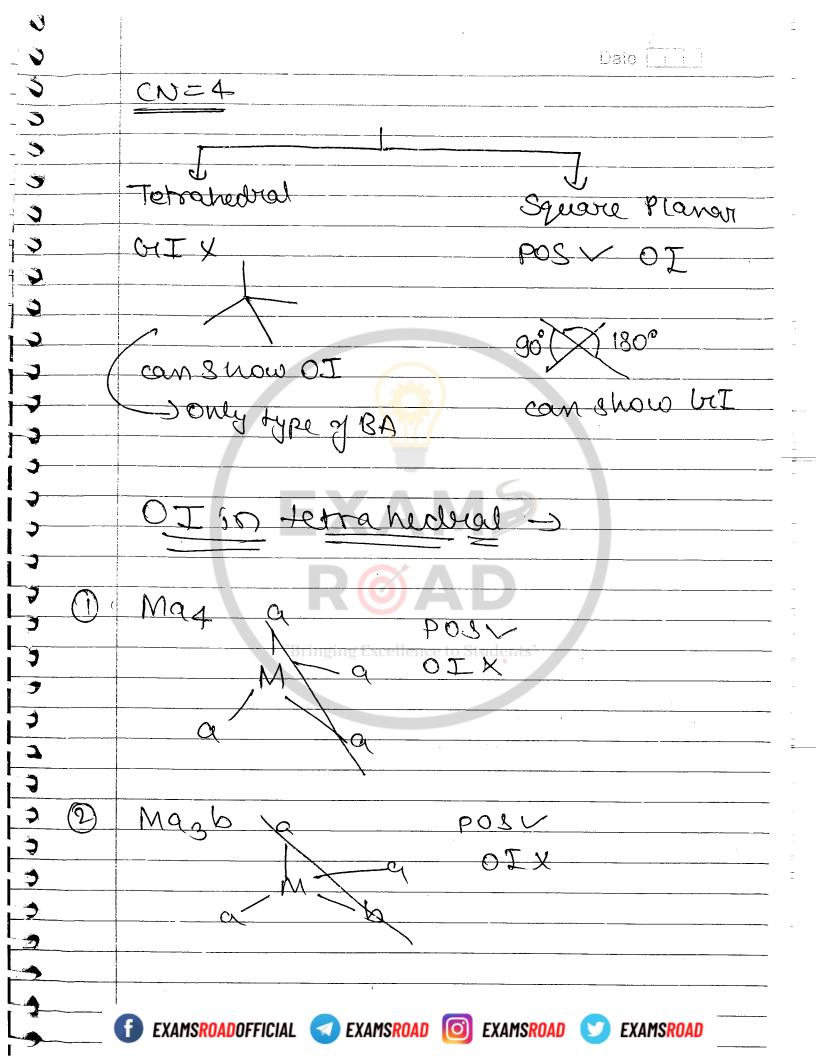
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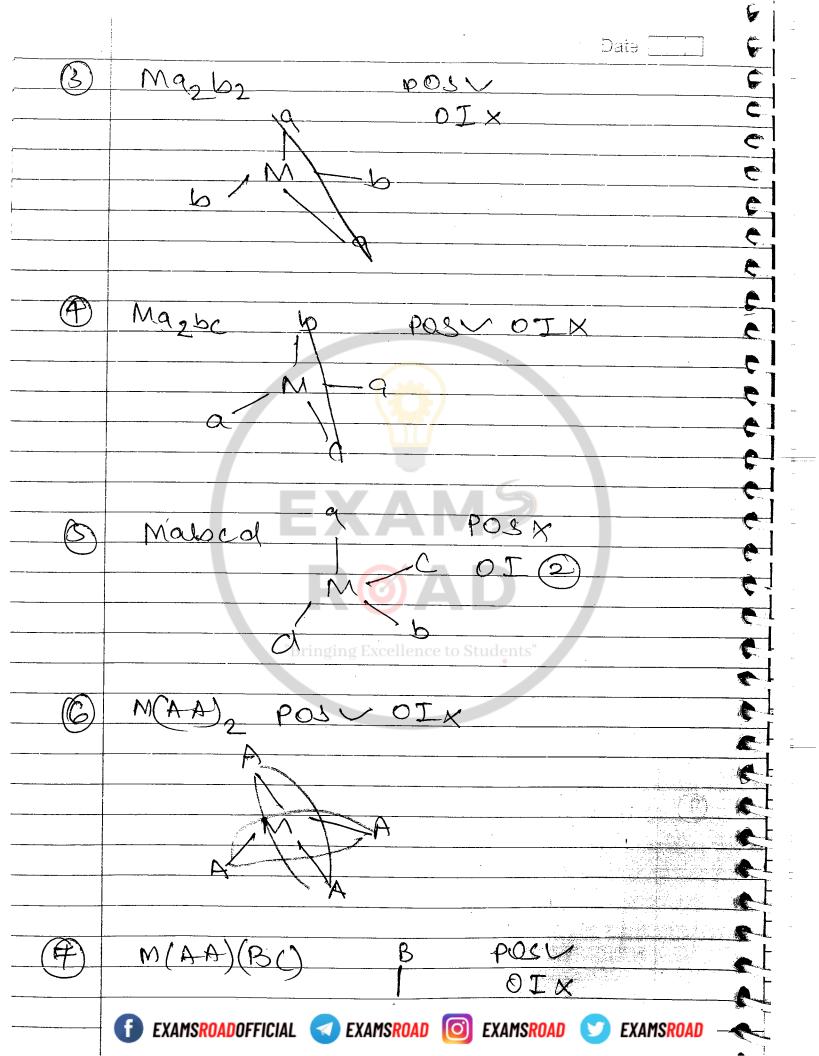


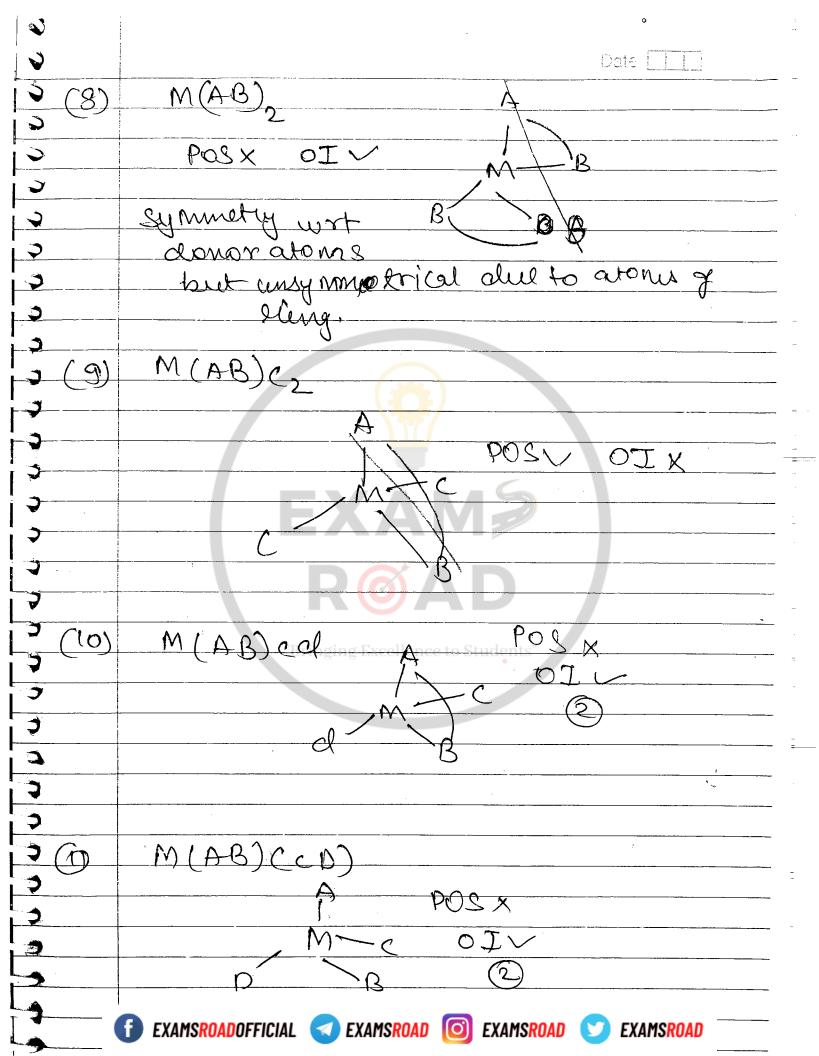


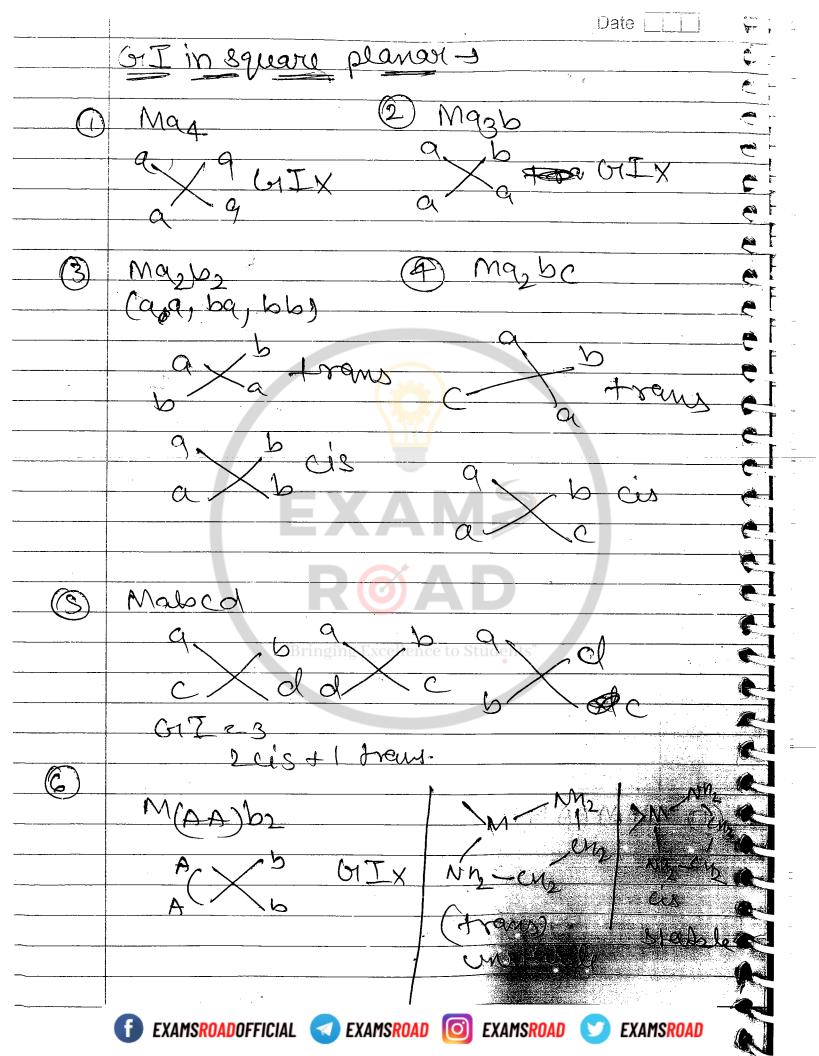
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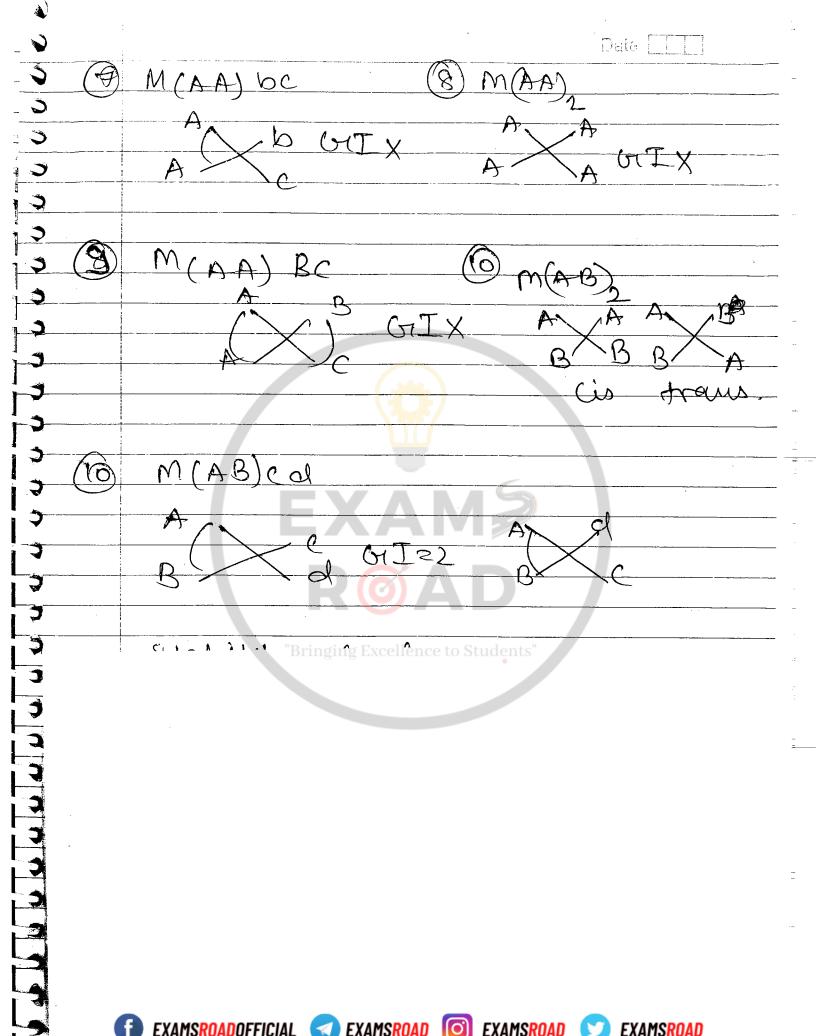














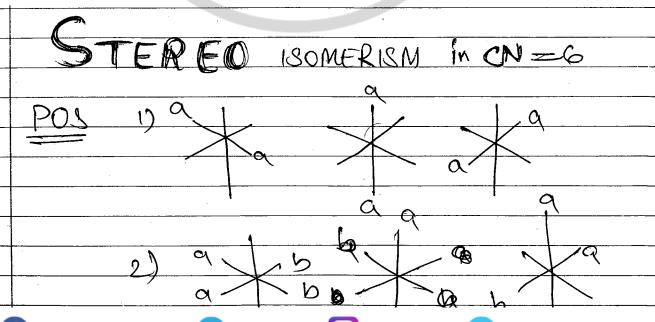


















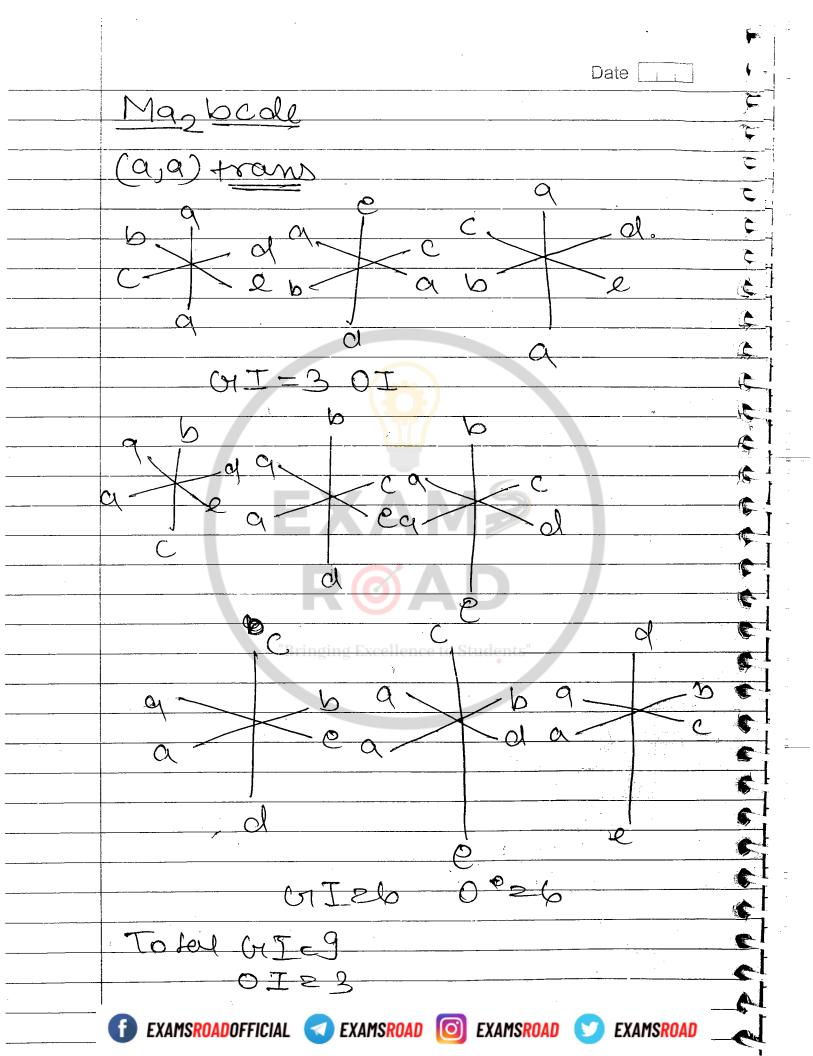


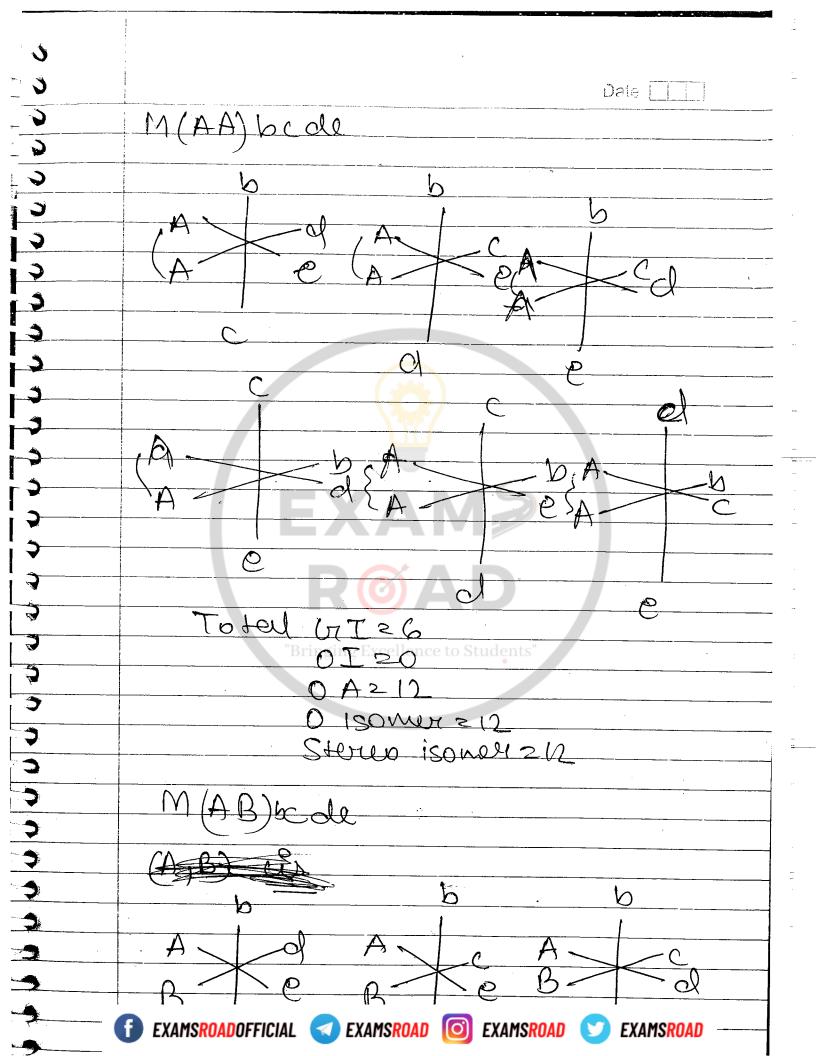


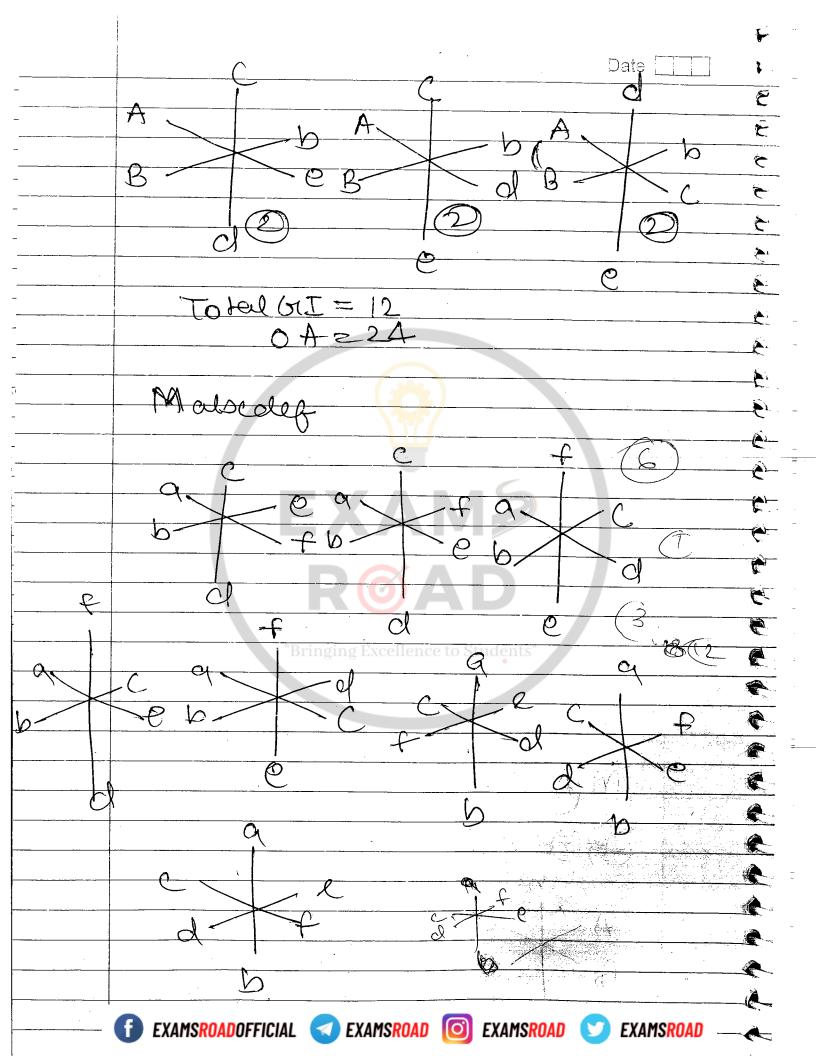
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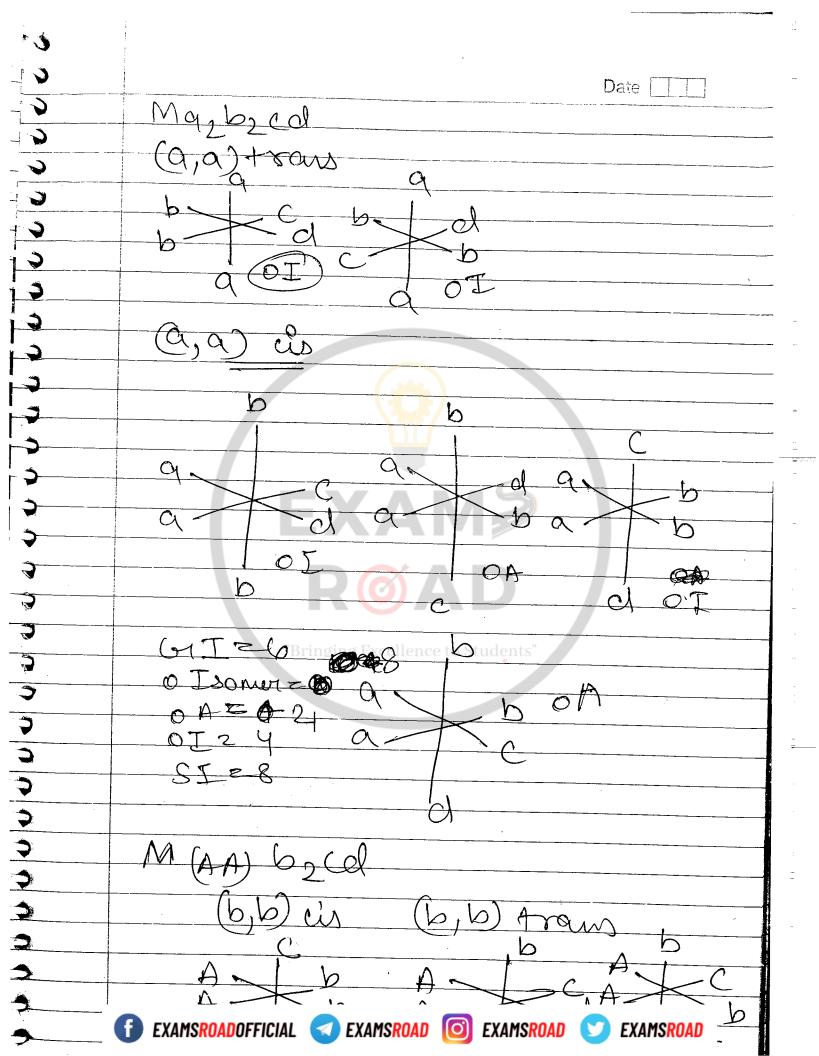


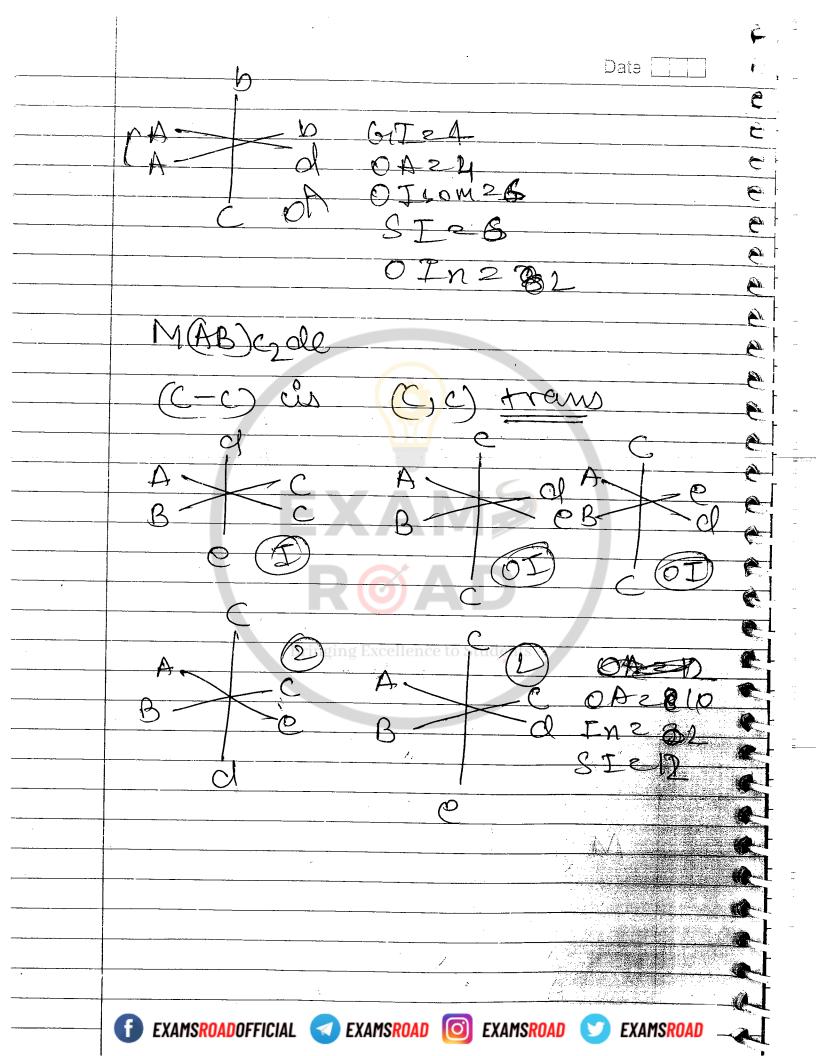
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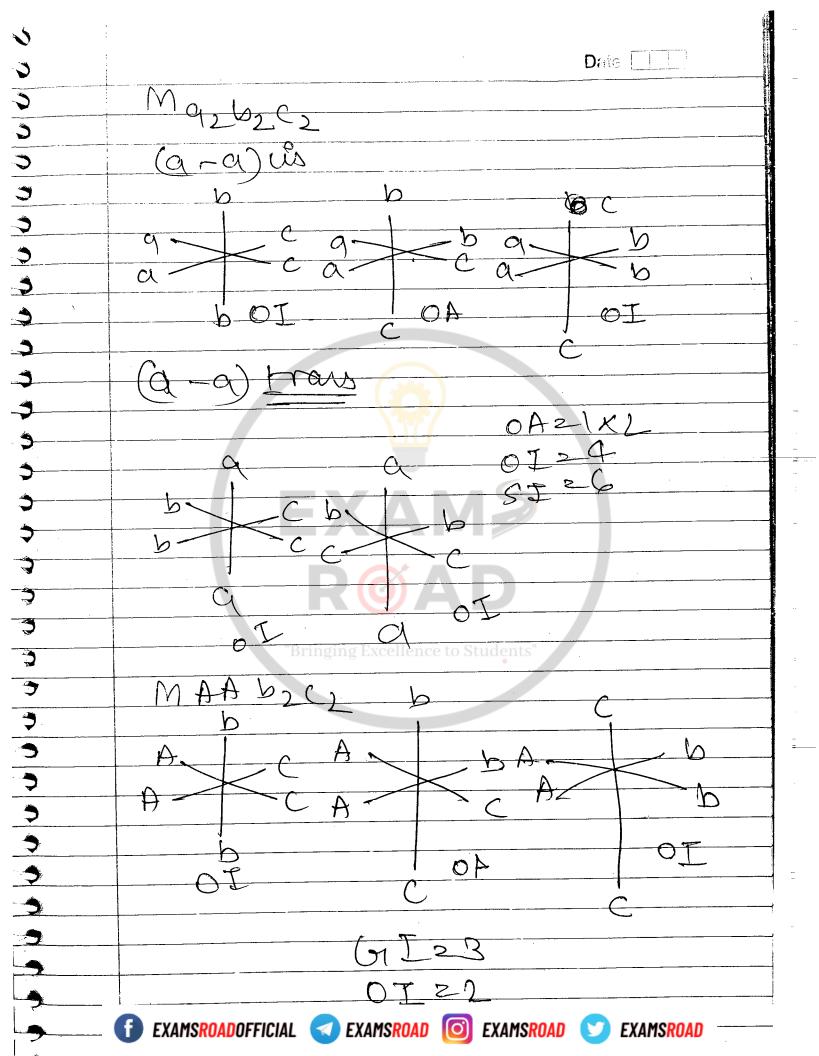


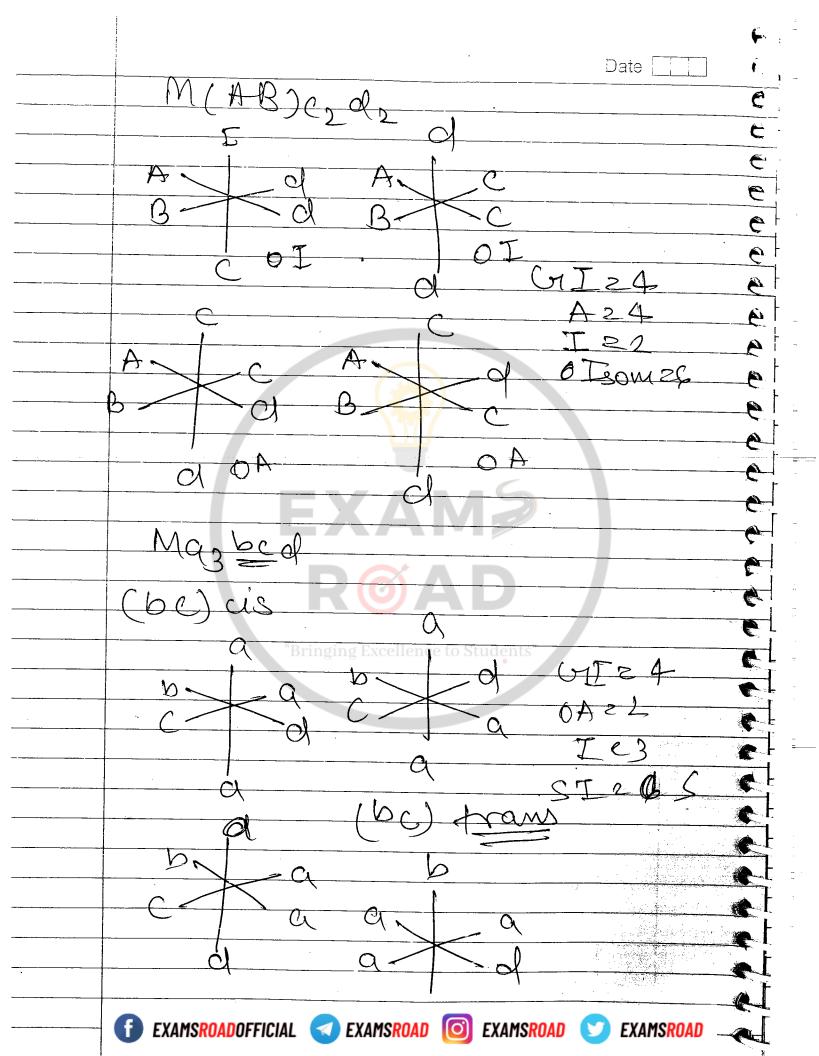


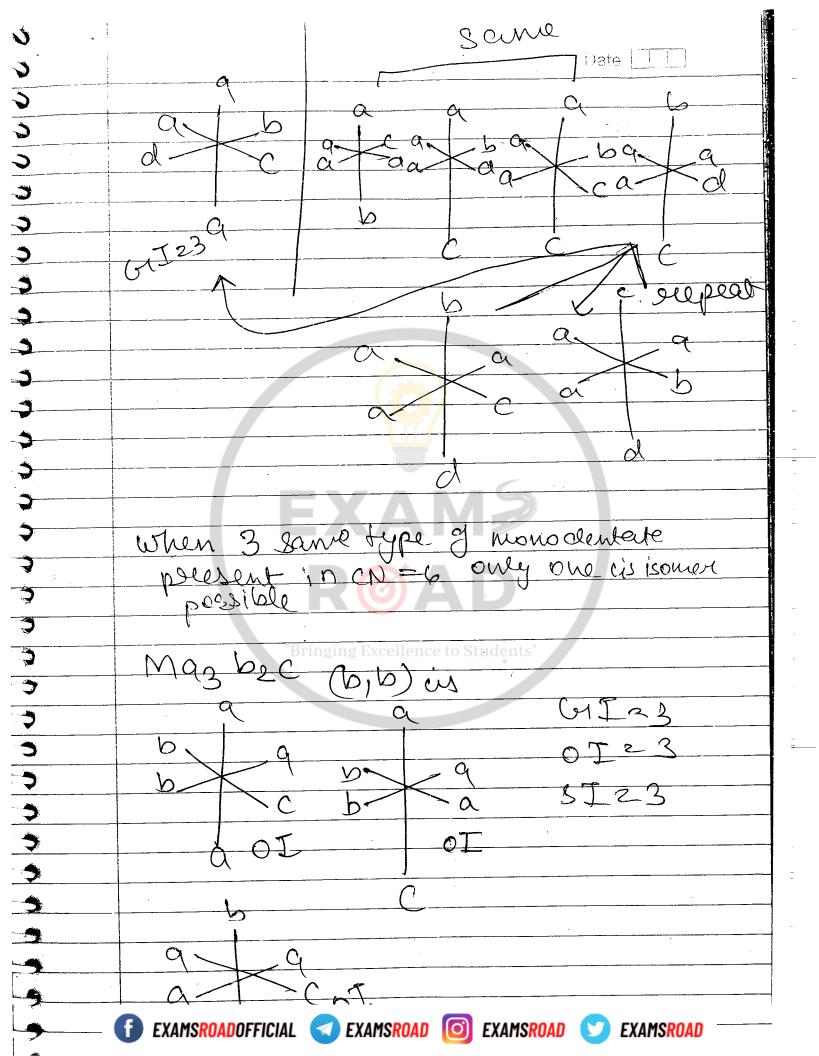


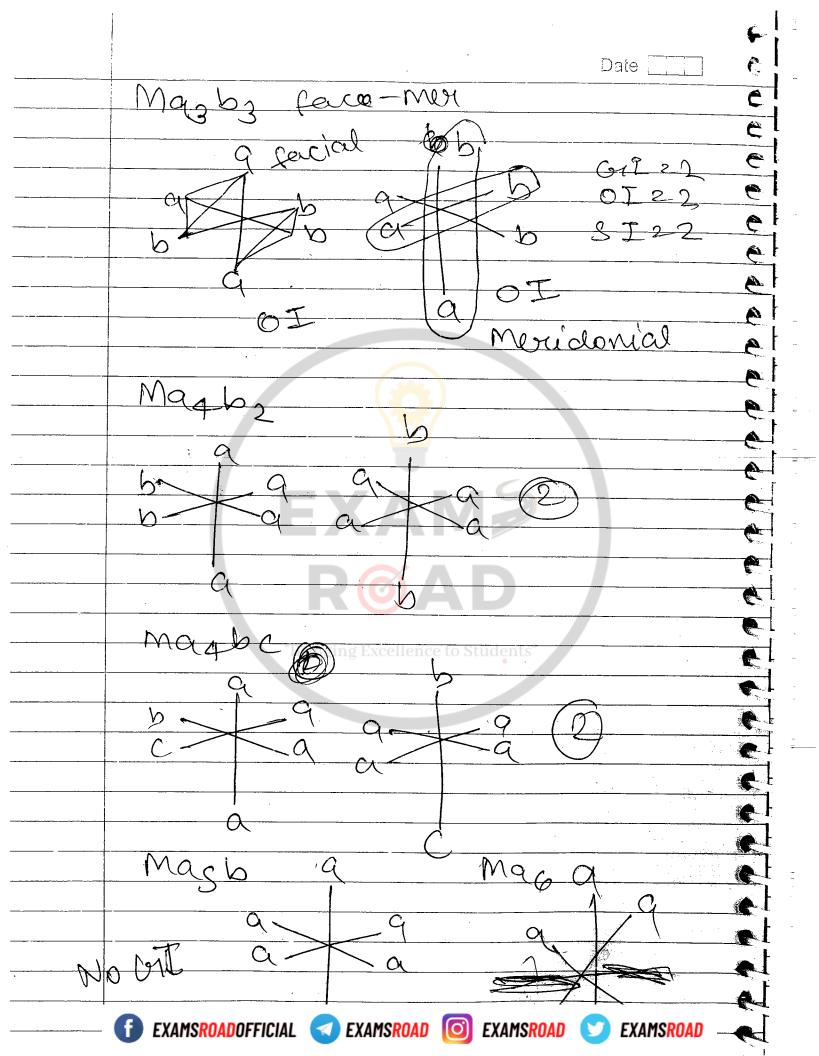


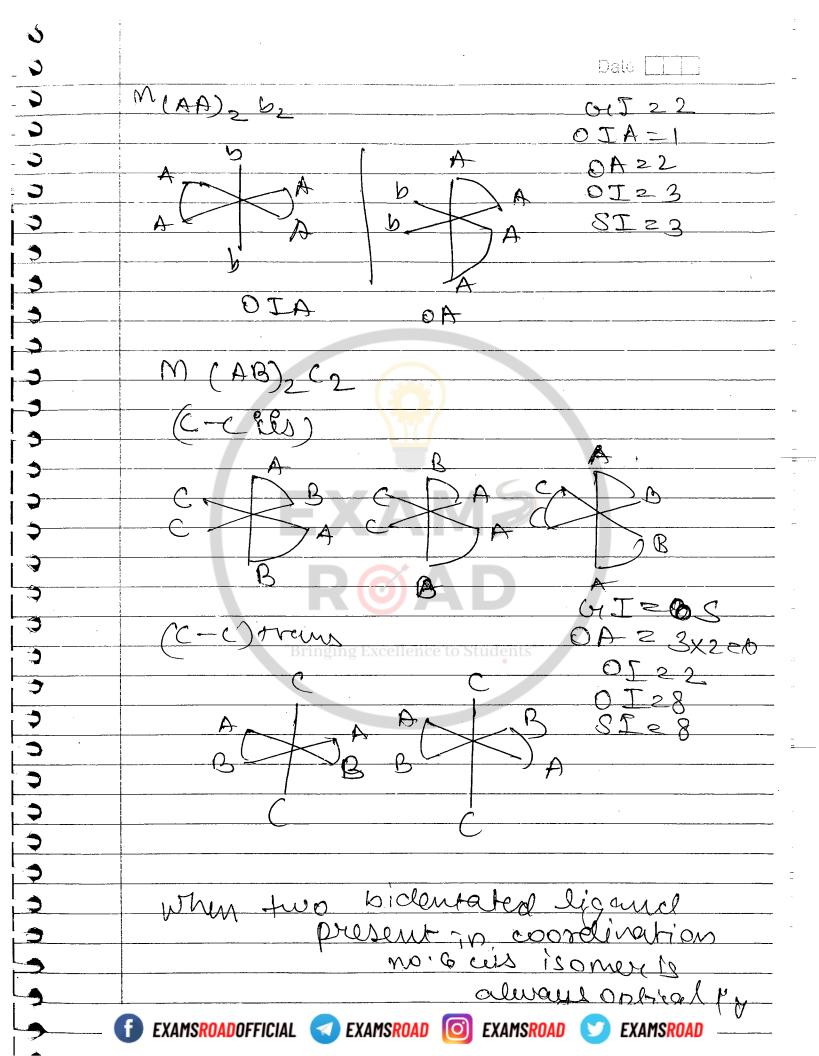


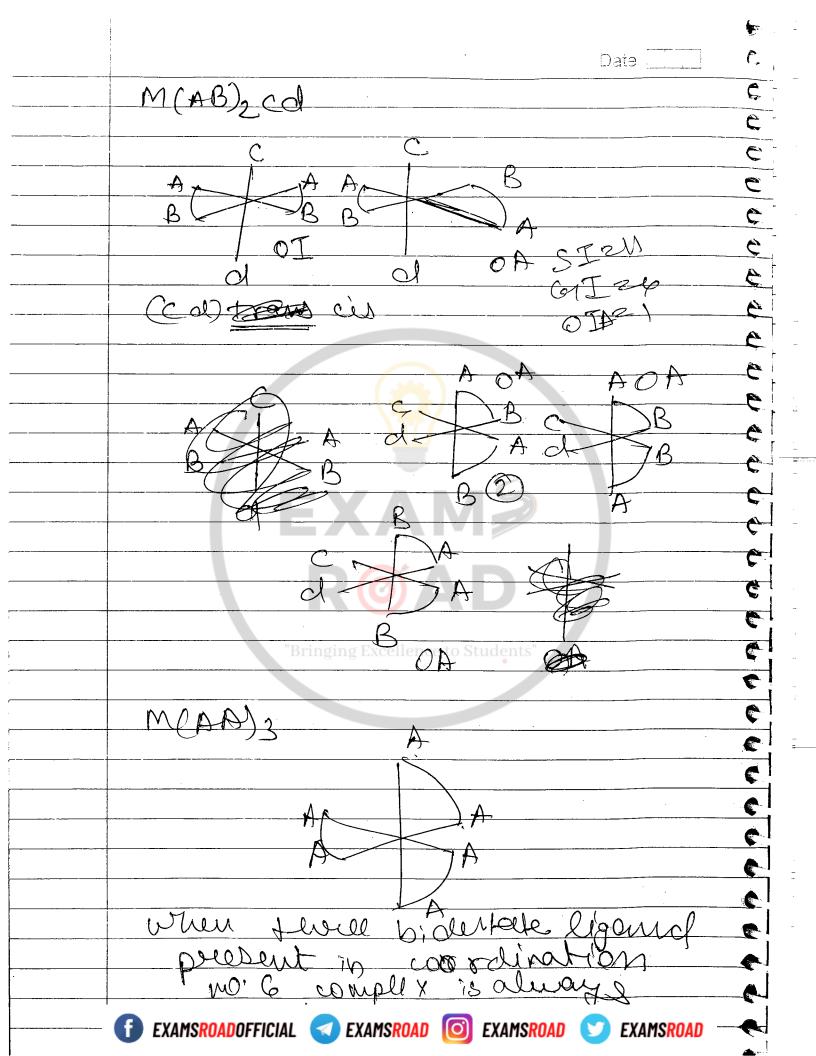


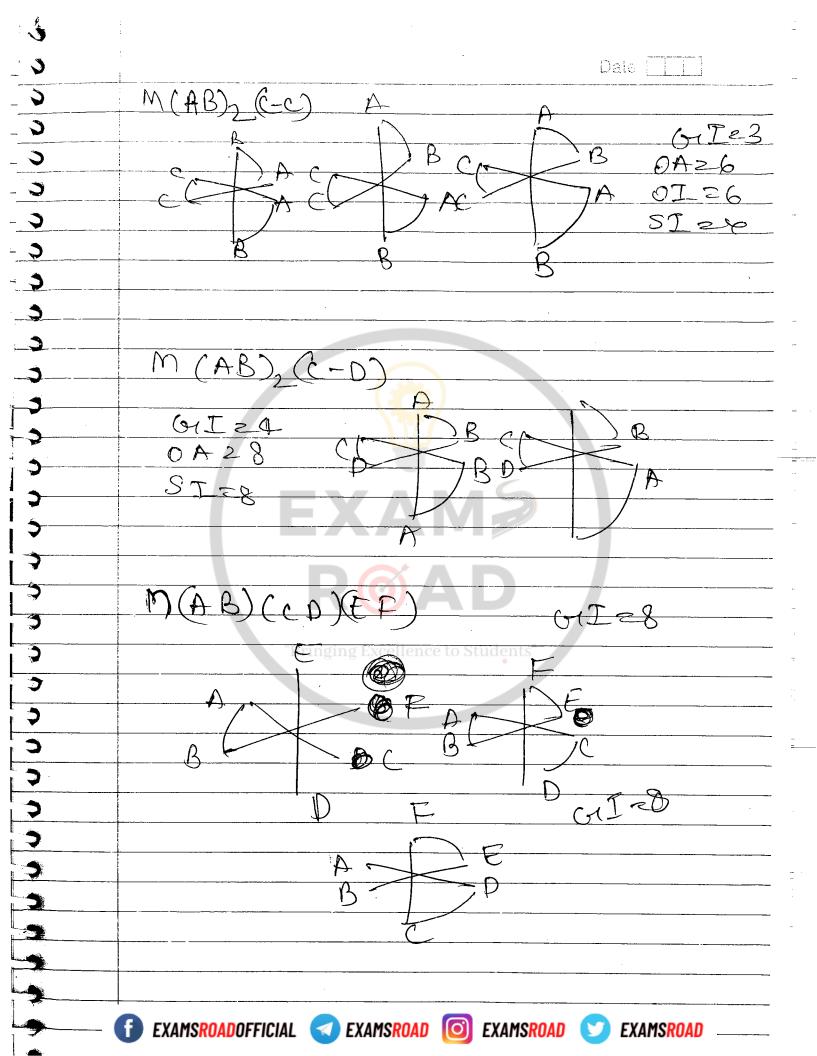


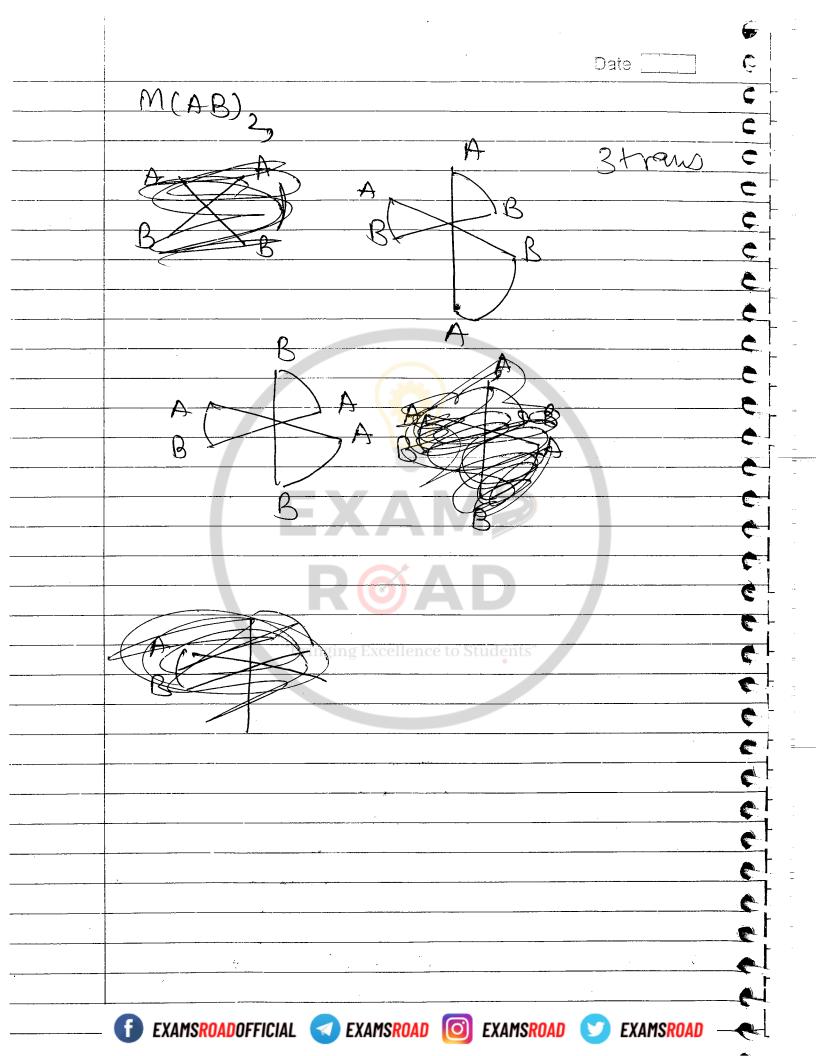




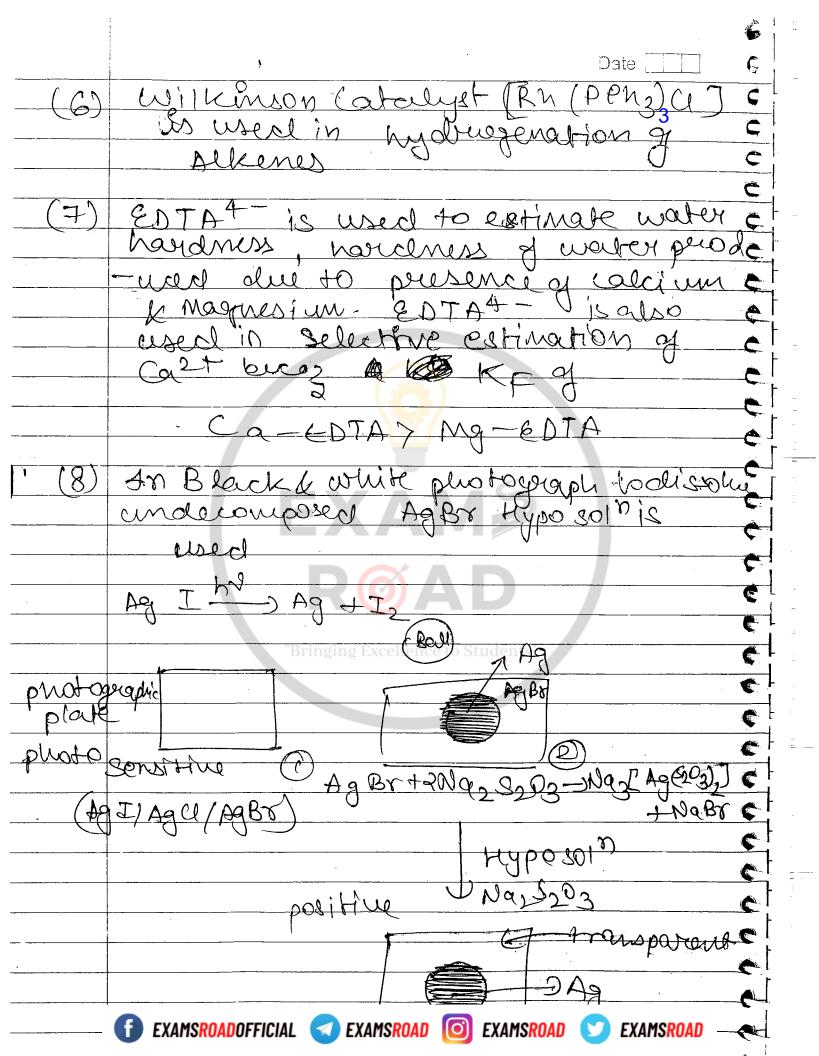


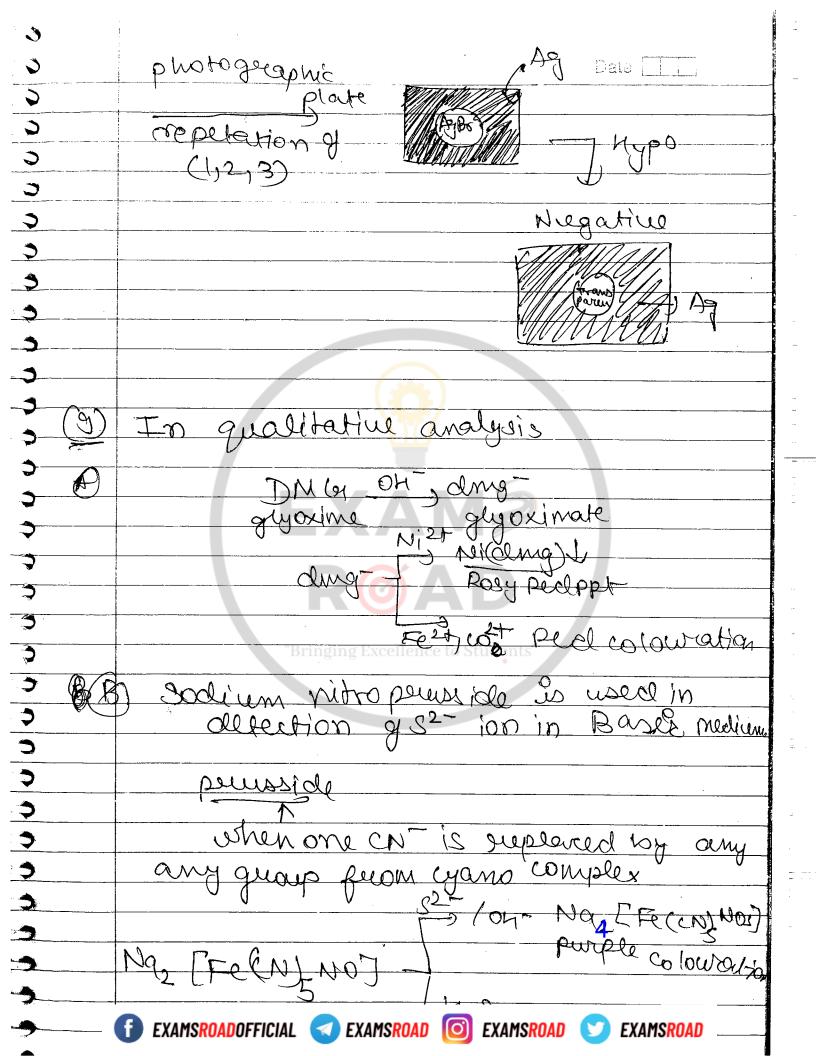


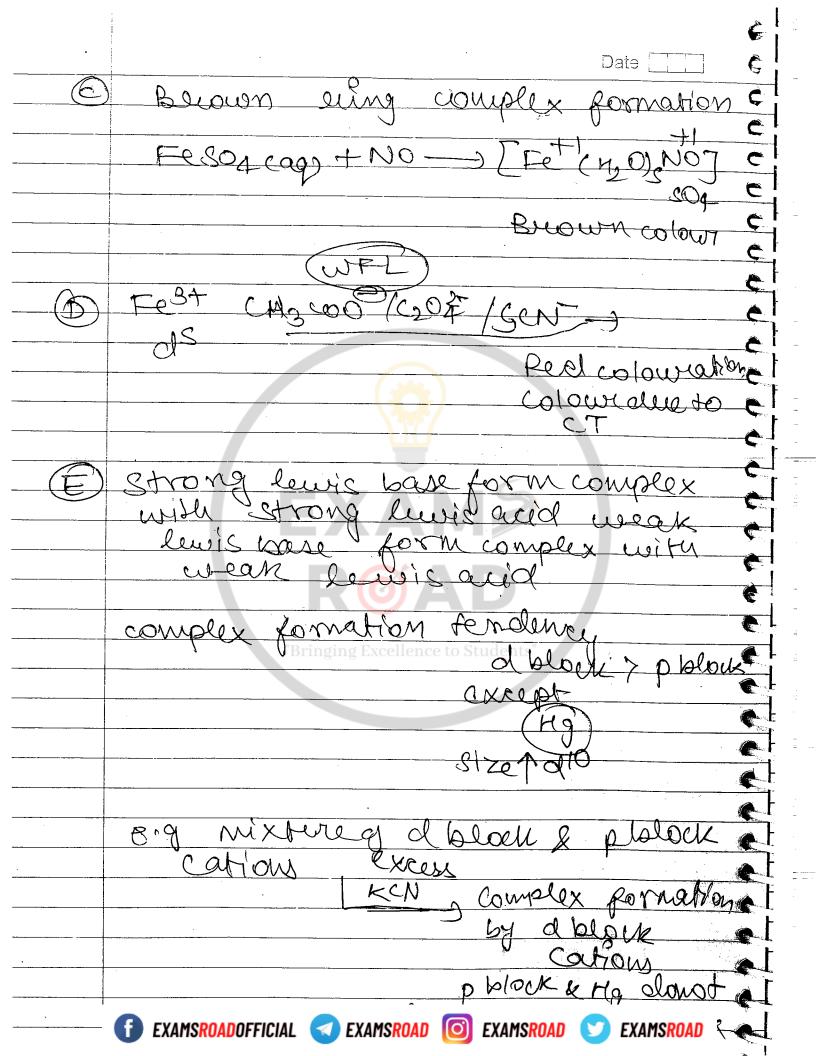




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