B. Sc. Part II (Semester – IV) (CBCS) (NEP2020) Examination March/April 2024 Balasaheb Desai College, Patan.

Chemistry Subject Code: 94259

	Subject	Couc. 74237			
Inorganic Chemistry (Paper – Day and Date: Monday 08/04/2024 Time: 02.30 p.m. to 04.30 p.m.			Total Ma Period:	VII) Total Marks: 40 Period: 2 Hours Total Pages: 1	
Instructions: 1) All questions are 2) Figures to the ri 3) Neat diagrams s 4) Use of scientific	ght indicate full m	herever necessary			
Q1) Choose the con	rrect alternative an	nd rewrite the sent	tence again.	[08]	
a) [Ar]3d ⁷ 4s	figuration of Co ³⁺ is (Ar) (Ar) (Ar) (Ar) (Ar) (Ar) (Ar)	c) [Ar]3d ⁷ 4s ⁵	d) $[Ar]3d^64s^2$		
a) Sharing of Shared el	ond is formed by f electron pair ectron pair donated are also known as f b	by only one atom	b) Transfer of electron d) Absence of electron electrons are added in	pair	
(a) 4f	b) 5f	c) 5d	d) 6s		
-	is due to,				
a) s-d transition b) p-d transition c) s-s transition					
	n is associated with				
Absence o			I nor unpaired electron		
c) Unpaired e		d) Paired electron	n		
vi) DMG is a sele	ective reagent for				
(a) Ni 2+	b) Bi ³⁺	c) Ti ³⁺	d) Mg ²⁺		
vii) Ligand is the	generally electron pa	airspecies.			
a) Accepter	b) Donar c) Accepter as well	as donar d)Repelling		
viii) Yellow ammo	nium sulphide is us				
	o) VI c) IV		i or iiiiigioapi		
. (2) Attaurant anna ta	ma a fi dha fallanda a				
b) Give the point	onics structure of 30 ts of distinction between Double salt a	d block elements. ween metal chelate	& metal complex. Discuss the postulates of	[16]	
2) Explain in bri3) Distinction be4) Write short no5) Application o	osition of lanthanide ef solubility produc etween Primary vale ote on Coordination	es in periodic table it with suitable examinates ency and Secondary sphere.	mple.	[16]	
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