QUARTERLY EXAMINA	TION - 2022	Register Number				
XII - CHEMISTRY						
Time Allowed: 3.00 Hours		Maximum Marks : 70				
NSTRUCTIONS: 1. Check the au	action page 6 6 '					
	rm the Hall Supervisor imi	of printing. If there is any lack of mediately,				
2. Use Blue or	Black ink to write and u	underline and Pencil to draw				
diagrams. Note : Draw diagrams and write equa	ations wherever nocessar	2				
ecc. Draw diagrams and write equi	PART - I					
lote i) Answer all the que		$(15 \times 1 = 15)$				
ii) Choose the most a	ppropriate answer from	n the given four				
		d the corresponding answer.				
Roasting of sulphide ore give	es the gas (A). (A) is	a colourless gas. Aqueous				
solution of (A) is acidic. The a) CO ₂ b) SO ₃	c) SO ₂	d) H,S				
The basic structural unit of s	silicates is					
a) (SiO ₃) ²⁻ b) (SiO ₄) ²⁻ Which of the following is stro	c) (SiO)	d) (SiO ₄) ⁴				
Which of the following is strong a) HI b) HF	c) HBr	d) HCI				
Which one of the following	compounds is not form	ned?				
a) XeOF ₄ b) XeO ₃	c) XeF ₂	d) NeF ₂				
axealate (FeC $_2$ O $_4$) is	diffied KMnO ₄ required	d to oxidize 1 mole of fervous				
a) 5 b) 3	c) 0.6	d) 1.5				
Zeigler - Zatta catalyst is		N TO				
a) CO ₂ (CO) ₈ b) TiCl ₄ + Assertion: Due to Frenke	- Ai(C ₂ H ₅) ₃ c) Rh/Ir	complex d) TiCl ₄				
Bancon . In Frankel defer	rt canian and anion le	aves the crystal				
a) Both assertion and re	eason are true and rea	ason is the correct explanation				
Ction						
b) Both assertion and re	eason are true but rea	ason is not the correct				
explanation of asserti c) Assertion is true but	reason is false					
		eelens basis a consequence				
The arrangement of crysta	llographic axes and a	ngles respectively in hexagona				
· ·tom ic						
$\alpha - \beta - \gamma - 90^{\circ}$	b) $a = b \neq c$,	$\alpha = \beta = \gamma = 90^{\circ}$				
0 000 1 - 1	110 - h - c	(+0+1-10)				
The half life period of a rad	dioactive element is	140 days. After 560 days, 1g				
the reduced to						
1/1/2\a h) (1/4)a	c) (1/8)g	a) (1/10)9				
	stea acias n ₂ 0 and	+ and F respectively				
a) OH and H ₂ F H ⁺ , respe	$\frac{\text{Clively}}{\text{d}}$)+and H_F+, respectively				
c) OH and F, respectively. If the hydrogen ion concer	ntration of a solution	is 10-5 m, its POH is				
-\ F		G / '				
the second section	is the strongest acid					
a) 2-nitrophenol	D) 4-CHIOTOP	rieiloi				
\ A militrophonol	U J J I I I I U U I I	CHUI				
	rric chloride, phenola	a gives				
- I - I - I - I NI NI OF	COLOUR CHARK CHEE	all (III III III III III III				
F1016 3610 1/02 \ /-11	CHILD CUICIOL OCO.	IIII3 I CUCCIO.				
a) Finkelstein reaction c) Hell-Volhard - Zelinsky re	UIDORNUILI	I Eachon				
c) Hell-Volnaru - Zeilrisky II	caccion a) None of	MI CHEMIS				

45									
15.	In a) c)	which Aldol Kalba	of the following reaction condensation is reaction	ons new carbon-ca b) Friedal Craf d) Wolf Kishne	arbon bond is not for t reaction ev reduction	rmed?			
				PART- II					
Answer any six questions. Question Number 24 is compulsory. (6x2=12)									
16 17 18 19 20 21 22.	Wr Wr Cla a) Exp Wh	ite a site a resify to P4 plain plain plain K	seudo first order reac Lewis acids and bas olbe's reaction.	ous, properties of to de test.) diamond d) tion with an examples. Give two examples	he first elements of NaCl	P-block.			
23. 24.	Wri	te IU	sterification reaction v PAC name for a	vith example.) C _s H _s CHO	WCH - CH - C	<u></u>			
21.			a name for) C ₆ H ₅ CHO	b) CH ₃ - CH - C	^П 3			
PART - III									
And	swer a	nnv si	x questions. Question		omnulsory	(6x3=18)			
25. 26.	Wri	te a r	note on Fisher tropsch the number of unpai metic moment.	synthesis.					
27. 28. 29. 30. 31. 32.	Writ Der Des Writ Writ Writ	te a control in the c	lassification of point of tegrated rate law for a method for refining expression for the so ee uses of Diethyl etl lote on Benzoin cond the pH of 0.4M HNC	a zero order react in nickel by mond polubility product of her. ensation.	crocess. Ca ₃ (PO ₄) ₂				
PART - IV									
Ans	wer a	II the	questions. Draw dia	grams wherever re	necessary.	(5x5=25)			
	a)	i) ii)				(2)			
	b)	i)	Give the structure	of CO and CO,		(2)			
		ii)	Give three uses of		a ship at a look	(3) (5)			
35.	a)	Cor	npare lanthanides an	(OR)		(5)			
	h)	1)	What is F centers?			(2)			
	b) i) What is F centers? What is meant by the term 'co ordination number'? What is the								
36.	co-ordination number of atoms in a bcc structure? (3) What is the order with respect to each of the reactant and overall order of the following reaction? $CH_3CHO_{(g)} \xrightarrow{\Delta} CH_{4(g)} + CO_{(g)}$ the								
			experimental rate			(2)			
		ii)	Give example for f	(OR)	n.	(3)			
	b)	Ехр	lain Ostwald's dilution			(5)			
37.	a)	i)	Write any two test	for phenol.		(2)			
		ii)	Explain dehydratio		erol.	(3)			
	6)	-	lain machanism of al	(OR)		(5)			
20	b)		lain mechanism of al Write Rosenmund	reduction reaction	in.	(5)			
38.	a)	i) ii)	Write Williamsons			(2)			
		")		(OR)		(2)			
	b)	i)	Explain common io	on effect with an	example.	(2)			
		i)	Derive the relation	between pH and	d POH.	(3)			
			XII - Ch	emistry - 2					