Class: 12

Register			
Number		 	

COMMON QUARTERLY EXAMINATION 2024-25

Time Allowed: 3.00 Hours]			MISTR	[Max. Marks: 70			
1	Choose the corre	ect answer. <mark>YouTub</mark> e		Academy	15x1=15		
1.		ntrated by proce		Academy	1011 10		
	a) Froth Floatation			Leaching			
	c) Hydraulic wash				ation		
2.	· · · · · · · · · · · · · · · · · · ·	efining of copper, which					
-	a) Pure Copper	similing of copper, which		Impure Copper	a ao olootiolyto.		
	c) Copper Sulphate			Acidified copper sulphate			
3.		loes not show catenation					
٠.	a) Carbon	b) Silicon		Lead	d) Germanium		
4.		following compounds is					
	a) XeOF			XeF,	d) NeF,		
5.	is called		٠,	AGI 2	0) 1101 2		
٠.		b) H ₂ S ₂ O ₇	c)	H ₂ SO ₅	d) H ₂ S ₂ O ₆		
6		nent of CO ³⁺ ion is		112005	J 1 12 2 6		
	a) 5.92	하스테스(1944) 15 아는 이번에, 공기, 공학 시간, 등을 위해하여 하는 건강하는 그 유학, 나는		4.89	d) 3.87		
7.			٠,	1.00	3, 5.5		
		b) Promethium	ı c)	Dysprosium	d) Terbium		
8		metal excess defect is		S ()			
	a) FeO			ZnO	d) AgBr		
9.		in NaCl crystal is due					
		electrons in F centers		Reflection of light from CI ion on the surface			
		light from Nation		All of the above			
10		wing fluoro compounds	State Control of the		a Lewis base?		
· .	a) BF,	b) PF ₃		CF ₄	d) SiF,		
11	. The PH of 0.01M I						
4	a) 2	b) 9	c)	12	d) 14		
12		following is the stronge	est acid				
	하다가 돈 그렇게 하면 하면 어머니에게 되는 그렇게 되었다. 하는데 하는 가입니다 하다 하다	nol b) 4 - Chlorop	and the second s	4 - Nitrophenol	d) 2 - Nitrophenol		
13		henol is more acidic the		1980 2			
	Reason : Pl	henoxide ion is resonai	nce stabilize	ed			
	a) Both Assertion	on and Reason are tru	e and reaso	on is the correct of	explanation of assertion.		
	b) Both Assertio	on and Reason are true	but reason	is not the correct	explanation of Assertion.		
	c) Assertion is	true but Reason is Fals	se d)	Both Assertion	and Reason are false.		
14	4. The reagent used	d to distinguish between	en acetalde	hyde and benzalo	dehyde is		
	a) Tollens reag	jent	b)	Fehling's soluti	on		
	c) 2,4 - Dinitro	phenyl Hydrazine	d)	Semicarbazide			
1	5. In Wolf Kishner r	reduction, acts	s as a redu	cing agent and	as a catalyst.		
	a) sodium etho	xide & Hydrazine	b)	Hydrazine & So	dium Ethoxide		
	c) Ketone & Hy	ydrazine	, d)	Aldehyde & Hy	drazine		
			PART - II		6x2=12		
11.	Answer any 6 que	estions. Question nu	mber 24 is	compulsory.			
1	What are the Lim	nitations of Ellingham D	Diagram?				
	7. What is Burnt Alu		10	1 m 1 m	X7/40/01-14		
_ 1	8. Give the uses of	Helium.		4.0	V/12/Che/1		

- 19. Write a short note on Chromyl Chloride Test.
- 20. Explain briefly Seven Types of Unit Cell.
- 21. Write Arrhenius Equation and explains the Terms involved in it.
- 22. How will you prepare Urotropine? Draw its structure.
- 23. Explain Kolbe's reaction.
- 24. Write the expression for the solubility product of Ca₃(PO₄)₂

PART - III

6 x3=18

- III. Answer any 6 questions. Question number 33 is compulsory.
- 25. Write a short note on van Arkel method
- 26. What are the differences between graphite & diamond?
- 27. Write note on Holme's signal?
- 28. What are Interstitial compounds? Give example
- 29. What is Lanthanoid contraction? Write its causes.
- Explain common ion effect with an example.
- 31. Give three examples for First Order Reaction.
- 32. Explain the Mechanism of Aldol condensation reaction.
- 33. An organic compound (A) $C_2H_4O_2$ reacts with thionyl chloride gives compound (B) C_2H_3OCI . Compound (B) reacts with ethanol gives compound (C) with fruit smell. Find (A), (B) and (C). Write the suitable reactions.

PART - IV

5x5=25

IV. Answer all the questions.

34. a) Explain Zone refining process.

(OR)

b) Complete the following reactions

i.
$$SiCl_4 + 4C_2H_2OH \rightarrow$$

35. a) i) Prepare Bleaching Powder

(2)

ii) Write the Molecular formula and structural formula for Phosphoric Acid (3)

(OR)

- b) Explain the Preparation of Potassium Dichromate.
- 36. a) i) Write note on Schottky Defect

(3)

ii) Why Ionic Crystals are Hard and brittle? (2

(OR)

- b) i) Explain Pseudo First order reaction with an example. (2)
 - ii) Write the Differences between order and Molecularity (3)
- 37. a) i) Write note on Lowry and Bronsted concept of acid & base? (2)
 - ii) Derive the relationship between PH & POH (3)

(OR)

- b) Convert: i) Ethylene Glycol → 1,4-Dioxane
 - ii) Glycerol → Acrolein
 - iii) Phenol → Phenolphthalein
- 38. a) i) Write any two tests for Carboxylic Acids. (2)
 - ii) Explain Popoff 's rule with an example (3)

(OR)

- b) i) Write Rosenmund Reduction. (3)
 - ii) Write HVZ reaction. (2)

V/12/Che/2

