Class: 12

Register			
Number			- 1

COMMON HALF YEARLY EXAMINATION 2024-25

	COMMON HUDE LESS	ALM A MARK		11 2U2	1 20
Ti	me Allowed : 3.00 Hours]	HEMIST:	RY	12 y	Max. Marks: 70
1	Choose the correct answer.			2.4	15x1=15
l.	Flux is a substance which is used to c	onvert			
1.	a) Mineral into Silicate	b)	Infusible impuri	ties to solu	ble impurties
			All of these		
•	In Diborane, the number of electrons			is	
2.		c)	Four	d) Th	ree
_	a) Six b) Two			٠, ١١١	
3.	When Copper, is heated with conc. HN			0	7.37.76
	a) Cu [NO ₃], NO and NO ₂		Cu [No ₃] ₂ and N		
	c) Cu [NO ₃] ₂ and NO ₂	d)	Cu [No ₃] ₂ and N		
4.	is used for the treatment of sk				€ ,
	a) Potassium dichromate	b)	Potassium Chro	omate	
	c) Potassium Permanganate	d)	Chromium		
5.	IUPAC name of [Ag(NH ₃) ₂ *] is	0 2		\rightarrow	, ,
	a) Di ammine Silver (ii) ion	b)	Di ammine Silve	er (i) ion	1 100
	c) Di ammine Argentate (i) ion	d)	Di ammine Arge	entate (ii) i	on
6.	CsCI has bcc arrangement, its unit cel	I edge length			
	. N. N. S	1		12	
	a) 400 pm b) 800 pm	C)	√3x100 pm	d) $\frac{13}{2}$	400 pm
	a) l ₂ sol i) h b) Gold Sol ii) C c) Hydroxide Sol iii) [n energy c) nost likely to b c) oxidized to wa c) Column - II Hydrolysis Oxidation Couble Decon Reduction b) d) id c) Product (C)	Entropy ahave as a Lewis CF ₄ ater by MnO ₂ mposition a - i, b - ii, c- iii, a - iii, b - i, c- iv, Formaldehyde is	d) Interbase? d) SiF, d) NH, d - iv d - ii d) Tart	rnal Energy
13.	 a) Acetyl chloride c) α - Chloro cyano ethanoic acid Nitration of Nitro benzene at 473 K res a) O - diNitrobenzene c) 1,3,5 - Tri Nitro benzene If one stand of the DNA has the Sequer stand would be a) TACGAACT c) TACGTACT 5. The Polymer used in making blankets a) Polystyrone 	d) sults in b) d) nces 'ATGCTT	Chloro acetic Ac None of these 1,3 Di Nitrobenz 1,4 Di Nitro benz GA' then the sequent TCCGAACT TACGRACT	ene	complementary
	a) Polystyrene b) PAN		Polyestor	d) Poly	hene

PART - II

Answer any six questions. Question No. 24 is compulsory. 16. Explain Auto Reduction? 17. Give the Uses of Neon? 19. Define Ionic Product of Water? Give its value at Room Temperature? 18. What are the Limitations of VB theory? 20. Why does conductivity of a solution decrease on dilution of the solution?

21. Write any three tests to differentiate Alcohols and Phenols.

22. Write Gomberg Reaction.

24. If the Rate constant of a first order reaction is 1.54x10-3s-1, Calculate its half life Period.

6x3=18

6x2=12

III Answer any six questions. Question No. 33 is compulsory.

25. Give the Structure of CO and CO2?

26. What is Lanthanoid contraction? Explain its consequences?

28. What is meant by the term Co- Ordination Number? What is the coordination number of atoms 27. What is Linkage isomerism? Explain with an Example?

in a Structure? 29. Give Examples for First order Reaction?

30. Difference between Chemisorption and Physisorption?

31. How will you convert Benzaldehyde into the following Compounds?

Cinnamic acid ii) Malachite green

32. How is RNA molecules classified? Explain their functions?

33. Identify A and B

5x5=25

IV. Answer all the questions.

34. (a) Explain Zone Refining Process with an Example? (5)

(OR)

(b) i) What is mean by burnt Alum? (2)

ii) Explain Deacon's process for Manufacture of Chlorine. (3)

35. (a) [Ni(Cn)₄]² is diamagnetic, while [Cr(NH₃)₆]³⁺ is Paramagnetic. Explain (5) (OR)

(b) Explain the Schottky defect and Frenkel Defect. (5)

36. (a) Derive an expression for Henderson-Hasselbalch Equation.

(OR)

(b) i) Write a note on Sacrificial Protection. (3)

ii) What is Brownian movement? (2)

37. (a) (i) Write Reimer - Tiemann reaction.

(ii) What happens when Diethyl Ether react. with a) Excess HI and (b) Cl₂ / Sun light. (3) (OR)

Write the Mechanism for Aldol condensation of Acetaldehyde? (5) (b) i)

Write a short note on Peptide Bond. (2) 38. (a) i)

ii) How is Buna - S Prepared? (3)

(OR)

Identify Compounds A, B, C, D and E Aromatic Hydrocarbon AnhyAlcl₃ A NH₃ C NH₂ D HNO₂/HCl E Aromatic Hydrocarbon AnhyAlcl₃ A NH₃ C KOH D 273K - 278K

Knidly Send Me Questing Mer Keys to Us. padasalar gmail from KK/12/Che/2