HALF YEARLY COMMON EXAMINATION - 2022

	2 - Std		CHEMIS	STRY	Reg	Landard Landard Land
111	ne - 3.00			Andrews and the state of the st		Marks : 70
1 1. 2.	Choose the of Which of the ma) Al b) Ni Which of the fo	netal is extract c) Cu ollowing is not	ted by Hall - H d) Zn sp² hybridsed	d .	ess?	15X 1 = 15
3.	a) Graphite Match	b) graphene	c) Fullerence	d) Dryice		
	oxoacids of ph a) Ortho phosp b) Hypo phosp c) Hypo phosp d) Pyro phospl A a) (iii) b) (iii)	horous acid horic acid horous acid	C (i) (iv)	i) +4 ii) +5 ii) +3 iii) +1 D (ii)	umber of y	phosphorous
	e) (iv)	(iii)	(i)	(ii) (ii)		
	d) (iii)	(ii)	(iv)	(i)		al a la
4.	assertion.	has the tende ion and reaso	ency of attaini n are true and	ing +3 oxida I reason is th	tion state ne correct	explanation of
	assortions					ect explanation of eason are false
5. 6.	A magnetic mo a) Ticl, The Vaccant s	oment of 1.73 b) [CoCl _e j ⁴ pace in fcc lat	BM will be Sh c) [Cu(N ttice unit cell is	lown by one H ₃)₄]²⁺ s	among th	e following
7.	a) 48% The rate const	b) 23% ant of reaction	d)32% n is 5 8x10 ⁻² S	d) 26% the order o	of reaction	ie
	a) First order					
	PH value of 0.0	1M HCl solut	ion a)10	b) 1	c) 12	d) 2
9.	Laptops have a) Lead storage	e battery b) f	Fuel cell c) l	Mercury butte	on cell d)	Lithium-ion battery
	Fog is colloida a) Liquid in ga	I solution of solution b) sol	id in gas	c) gas in lic		d) gas in gas
- 11.	On reacting wi	th neutral terr	ic chloride, Pr our d) dar	ienol gives k areen colo	our (d) no colouration
12.	Which one of t	he following u	indergoes can	nizaro react	ion	ay no colouration
	(i) CH ₃ CHO a) (i) & (ii)					
13.	Which of the fo a) Sn/Hcl	ollowing reage	ent can be use	ed to convert	nitrobenz	ene to aniline All the above
14.	If one strand o complementar	f the DNA has	the sequence			
	a) TACGRAGT	•		d) TCCGA	ACT c) TACGTAC
	the second of th				12th - Ch	emistry -Nmk-Page-1

15	5. The Medicinal value of a drug is measured in terms of its a) Deoxy ribose b) Gold number c) Therapatic d) Eqlilibrium constant	
. !!	Answer any 6 Questions. Question Number 24 is compulsory 6x2	:= 12
16	6. Write the difference between minerals and ores.	
18 19 20 21 22 23	7. Give the uses of Borax 8. What are interhalogen Compounds? given any two examples 9. Define rate Law and rate constant 9. Frenkal defect - Define 1. What is electro phorosis? 2. Write the acrolein preparation 8. What is harmone? Given example	
24	1. Why is AC current used instead of DC in measuring the electrolytic conducti	on?
111	Answer any b Questions	
25	Question Number 33 is compulsory Explain Froath - Floation method Compulsory	= 18
20	· How Will you identify horate redical?	
27	· Write the following for the complex [Pt (No.) (H.O.) (NU.) 1.D.	
	1) Central metal jorn 2) ligands 3) oxidation number 4) Co ordination anti-	
28	5) Co-ordination number 6) IUPAC Name Derive integrated rate law for first order reaction?	
29	∴ Explain common iorn effect? Given example	
30	. vvrite a short notes on kinetic property of colloids	
31	. Give three difference between DNA and RNA	
33	Explain the reducing property of formic acid	
	Write the two isoners with the formula CH ₃ NO ₂ How will you distinguish between the	em?
34	Answer all the following	5 = 25
0 ,	a) (i) Explain the Mond's process of refining nickel (ii) Write the uses of silicones (or)	(2mark)
	b) (i) Write the difference between lanthanoids and actinoids	(3mark)
	(ii) Sulphuric acid is best dehydrating agent prove that	(3mark)
35	a) (i) Write the postulates of werner's theory (or)	(Emark)
•	b) (i) What is unit cell	(5mark) (2mark)
	(ii) barium has a body centered cubic unit cell with a length of 508pm along	(3mark)
	edge, what is density of barium in a cm ⁻³ ?	(ormant)
30	a) (i) Derive an expression for ostwald's dilution law	(3mark)
	(ii) Differtiate homegeneous catalyst and heterogeneous catalyst (or)	(2mark)
	b) (i) Write a short note on sacrificial protection	(3mark)
37	(ii) Explain mercury - button storage battery 7. a) (i) Write short note on: a)Gabrial phthalimide Synethesis b) coupling rea	(2mark)
,	William the one on a Country of the Synethesis of country the	
	c) carbylamine reaction	
	c) carbylamine reaction	(3mark)
	(ii) Differentiate primary, secondary and tertiary amine (any four points) (or) b) (i) How will you prepare nylon 6.6 and dacron	
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38	(ii) Differentiate primary, secondary and tertiary amine (any four points) (or) b) (i) How will you prepare nylon 6,6 and dacron (ii) Structure of glucose 3. a) (i) What are food preservatives?	(3mark) (2mark) (2mark)
38	(ii) Differentiate primary, secondary and tertiary amine (any four points) (or) b) (i) How will you prepare nylon 6,6 and dacron (ii) Structure of glucose 3. a) (i) What are food preservatives? (ii) Write short notes on cleansing action of Soan (or)	(3mark) (2mark)
38	(ii) Differentiate primary, secondary and tertiary amine (any four points) (or) b) (i) How will you prepare nylon 6,6 and dacron (ii) Structure of glucose 3. a) (i) What are food preservatives? (ii) Write short notes on cleansing action of Soap (or) b) Identify A, B, C, D and E in the following sequence of reactions	(3mark) (2mark) (2mark)
38	(ii) Differentiate primary, secondary and tertiary amine (any four points) (or) b) (i) How will you prepare nylon 6,6 and dacron (ii) Structure of glucose 3. a) (i) What are food preservatives? (ii) Write short notes on cleansing action of Soan (or)	(3mark) (2mark) (2mark)