	HALF YEARLY E - Std CHEM e: 3.00 hrs.	IISTRY	Marks : 70
I	Note: i) Answer all the question from the given four alternation corresponding answer.	ns. ii) Choose the m ves and write the	ost appropriate answer option code and the $15 \times 1 = 15$
1.	Considering Ellingham diagram, whi	ch of the following me	etals can be used to reduce
2.	a) Fe b) Cu Which of the following is not Sp² hy	c) Mg	d) Zn
3.	a) Graphite b) Graphene Formula for hyponitrous acid	c) Fullerene	d) Dry ice
4.	a) HOONO b) $H_2N_2O_2$. The actinoid elements which show the showth of the short	c) HNO ₂	d) HNO ₄
	a) Np,Pu,Am b) U,Fm,Th	c) U,Th,Md	d) Es,No,Lr
5.	How many geometrical isomers are		
	a) 3 b) 4	c) 0	d) 15
6.	The yellow colour in NaCl crystal is		d),13
. 1	a) excitation of electrons in F cente		
	b) Reflection of light from Cl ion on		
	c) refraction of light from Na+ ion		
7.		d) all of these	
<i>,</i> .	Among the following graphs showing (T) for a reaction, the one that of		
	temperature range is	exhibits Afficilities b	enaviour over the entire
		T.	
	a) lok 1/T b) lok 1/T	c) logk	d) both (b) and (c)
8.	How many Faradays of electricity a $\operatorname{Mn} O_4^- \to \operatorname{Mn}^{2+}$	•	ollowing reaction to occur
	a) 5F b) 3F	c) 1F	d) 7F
9.	Which one of the following is correct	tly matched?	
	a) Emulsion - Smoke	b) Gel - butter	Day they also
	c) Foam - Mist	d) Whipped cream	- Sol
10,	Williamson synthesis of preparing dimethyl ether is a		
	a) SN¹ reaction	b) SN ² reaction	
27	b) electrophilic addition	d) electrophillic sul	ostitution
11.	Which one of the following reduces		
	a) formic acid b) acetic acid	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	d) none of these
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12. 13.	The product formed by the reaction an aldenyde with a primary amine a) carboxylic acid b) aromatic acid c) Schiff's base d) Ketone Which of the following base is not present is DNA?			
14.	a) Uracil b) Adenine c) Cytosine d) Guanine Aspirin is a			
•	a) Acetyl salicylic acid b) Benzayl salicylic acid c) Chlorobenzoic acid d) Anthranilic acid			
15.	Conjugate acid of NH_2^- is a) NH_4^+ b) NH_3 c) NH_2 d) NH_3			
11 16. 17. 18. 19. 20. 21. 22. 23.				
24.	$C_6H_5NO_2 \xrightarrow{Fel\ Hcl} A \xrightarrow{HNO_2 \over 273K} B$. Identify A and B.			
25. 26. 27. 28. 29. 30. 31. 32. 33.	How bleaching power is prepared? What are interstitial compounds? Give example. Give the differences between double salt and coordination compounds. Explain Pseudo first order reaction with an example. What is common ion effect? Give example. Write a note on Lithium - ion bettery. Write a short note on peptide bond. What are food preparation? Give example. How are the following conversions effected? i) Phenylmethanal → benzoic acid. ii) Phenylmethanal → benzoin.			
IV 34.	Answer all the questions: a) Explain zone refining process with an example. (OR) b) i) How will you identify ethyl borate test. ii) What is catenation?			
35.	b) Derive an expression for Oswald's dillution law.			
36.	 a) Explain intermediate compound formation theory of catalysis with an example. (OR) b) i) What are point defects? 			
37.	ii) Differentiate - Tetrahedral voids and octahedral voids.			
۵/.	b) Explain the structural elucidation of Fructose.			
38.	a) Derive Nernst equation. (OR) b) A organic compound $C_2H_6O(A)$ heated with con H_2SO_4 at 443K to give an unsaturated hydrocarbon $C_2H_4(B)$, which on treatment with Bayer's regent to give compound (C) $C_2H_6O_2$. Which is used as antifreeze in automobile radiator. Identify compounds A,B and C. Write the equations. HSS 12 Caugutus PAGE -2			
0000	경험 하면에 가지를 만나는 생활하게 된 지나가의 보다는 지난생과 이 등 하고 있다. 등 점을 하는 하고 있는 아니라는 사람이 하고 있다. 이 등 이 등 생활하			