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(0	COMIN	ION SECOND R	EVISION T	EST - 2023
		Stand	ard XII	Reg.No. :
CHEMISTRY				
Time: 3.00 hrs. Part - I Marks: 70				
	Choose the corre			15 x 1 = 15
			ction is 5 minute	
 The Half Life period of a first order reaction is 5 minutes, the time required for 99.9% completion is nearly equal to 				
	a) 00 0 minutes	N 40 95 minutes	c) 50 minu	tes d) 10 minutes
 a) 99.9 minutes b) 49.95 minutes c) 50 minutes d) 10 minutes 2. What is the pH of the resulting solution when equal volumes of 0.1 NaOH and 0.01 				
6.	HCI are mixed?	tile leadining adiabati	mich equal vo	diffes of o, 1 (4ao) 1 and o.o.
	a) 2.0	b) 3	c) 7.0	d) 12.65
3	Among the following		0, 1.0	d) 12.00
J.	Leclanche cell		II) Nickel-C	Cadmium cell
	III) Lead Storage		IV) Mercury	
	Primary cells are	battery .	117 111010011	
	a) 1 & IV	b) 1& III	c) 111 & IV	d) II & III
4		ng which one is exan		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
75.5	a) Fog	b) Froth	c) Milk	d) Paint
5		wing oxidises Glycero		
	a) con.HNO ₃	b) Bi(NO ₃) ₂	c) Br ₂ /H ₂ C	
6		following reduces toll	The state of the s	
	a) formic acid			acid d) picric acid
7.		wing amines does no		
	a) t-butylamine		b) ethylam	
	c) diethylamine		d) triethyla	amine
8.	8. Vitamin B7 is also known as			
527.17	a) biotin	b) pyridoxine	c) folic ac	id d) thiamine
9.	The mixture of chloroxylenol and terpenicol is used as			
	a) antiseptic	b) antipyretic	c) antibiot	ic - d) analgosics
10.	The incorrect statement among the following is			
Nickel is refined by Mond's process				
	 Titanium is refined by Van Arkel's process 			
 Zinc blende is concentrated by froth flotation. 				
	d) In the metallu	rgy of gold, the meta	I is leached wit	h dilute NaCl solution.
11.	Duralumin is an a	lloy of		
	a) Cu, Mn	b) Cu. Al, Mg	c) Al, Mn	d) Al, Cu, Mn, Mg
12.	The number of bo	nd pair and lone pair	present in AX	type interhalogen compound
	a) 1.3	b) 3.2	c) 5,1	d) 7.0
13.	Permanganate ion	changes to	in acidic medi	um.
	2) MnO.2-	b) Mn ²⁺	c) Min-	d) WhO ₂
14	A magnetic mome	ent of 1.73 BM will be	shown by one	among the following
	a) TiCl ₄	b) [CoCl ₆] ⁴⁻	c) [Cu(N)	$(1_3)_4]^{2+}$ d) $[Ni(CN)_4]^{2-}$
15	The vacant space	in fcc lattice unit cel	l is	W ===
1.30	a) 48%	b) 23%	c) 32%	d) 26%
		D ₁₀	et - 11	

 $6 \times 2 = 12$

II. Answer any 6 questions. (Q.No.24 is compulsory)

16. What are the limitations of Ellingham diagram?

17. What happens when PCI₅ is heated?

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www.vskteaches.xyz XII Chemistry 18. Write down the central metal ion and ligand present in coordination complex [Co(NH3)6] Cl3 19. Give two examples for zero order reaction. 20 Give any two differences between Lewis acid and Lewis base 21 Explain Tyndall effect. 22 Draw the molecular structure of Aspirin molecule Write down the equation for Hofman's degradation. 24 An organic compound (A) having molecular formula C3H6O is heated with Zinc amalgam and hydrochloric acid produces compound (B) having molecular formula C₃H₈. Identify A and B. Part - III III. Answer any 6 questions. (Q.No.33 is compulsory) $6 \times 3 = 18$ Differentiate Double salt and Coordination complex. 26. How will you identify borate radical? 27. What are the consequences of Lanthanide contraction? 28 Write down the Bragg's equation and explain it. 29 Define Corrosion? How do you prevent corrosion? Write down three characteristics of catalyst. How do you prepare Terylene? Mention its use. Draw the structures of cellulose and sucrose. An organic compound (A) - C₃H₈O₃ used as a sweetening agent, which on oxidation with Fenton's reagent gives a mixture of compounds B and C. identify A, B and C. Write possible reactions. Part - IV $5 \times 5 = 25$ IV. Answer all the questions. Explain the principle of electrolytic refining of metals with silver as an example. [5] (OR) Give the balanced equations for the reaction between chlorine with cold b) NaOH and hot NaOH [3] Write down any two uses of silicones. [2] ii) Explain Linkage isomerism with an example. 35. a) [3] i) Write a short notes on "Chromyl chloride" experiment. (OR) Explain briefly about Scottky and Frenkel defects? b) Write down the differences between order and molecularity. [3] 36. a) Write the expressions for the solubility products of Hg₂Cl₂ and Ca₃(PO₄)₂? [3] State Faraday's first law of electrolysis? [2] b) ii) A copper electrode is dipped in 0.1 M copper sulphate solution at 25°C. Calculate the electrode potential of copper. [Given E⁰c.² Describe Intermediate compound theory of catalysis. [5] 37. a) How will you convert the following? b) phenol → benzene phenol → aniline Write any two uses of anisole. 38. a) Explain Popoff's law. [2] Write a short notes on Gombery reaction and "Levine and Hauser"

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acetylation.

b)

[3]

How carbohydrates are classified. [3]

Write a short notes on HVZ reaction.

(OR)