FIRST REVISION TEST - 2025

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Standard XII

Reg.No.				*	
Heg. 140.	-	 -	and the	and the same	ativa

CHEMISTRY

_	Part	-114.	Marks: 70		
Tim	6:3.00 ms		15 x 1 = 15		
	Tallering which metal his till	dergo self-reduction	n?		
1.	a) Mercury b) Gold	c) Silver	d) Copper		
53	the state of the state of the number of the state of the	3(1/	· · · · · · · · · · · · · · · · · · ·		
2.	a) Fullerene b) Graphite	c) Diamond	d) Graphene		
	a) Fullerene b) Graphite A element belongs group 15 and 3rd	period of the period	dic table. Its electronic		
3.	A element belongs group to and ord				
	configuration would be a) $1s^2 2s^2 2p^6 3s^2 3p^2$ b) $1s^2 2s^2 2p^4$	c) $1s^2 2s^2 2p^6 3s^2 3$	$d) 1s^2 2s^2 2p^3$		
	Which of the following compounds is col	ourless?			
4.	a) Fe ³⁺ b) Ti ⁴⁺	c) Co ²⁺	d) Ni ²⁺		
	Which type of isomerism is exhibited by				
5.	Which type of isomerism is exhibited by	b) Linkage isomeri	sm		
	a) Coordination isomerism c) Optical isomerism	d) Coometrical iso	merism		
	c) Optical isomerism The ionic radii of A ⁺ and B ⁻ are 0.98 X 10	0-10 m and 1.81 x 1	0-10 m. The coordination		
6.	The ionic radii of A and B are 0.98 X	U Milianu 1.01 X 1			
	Number of each ion in AB is	c) 6	d) 4		
	a) 8 b) 2	c) 6	e for half reaction is also		
7.	a) 8 If the initial concentration of the reactant	is doubled, the time	le loi tian readion to alle		
	double. Then the order of the reaction is		d) None		
	a) Zero b) One	c) Fraction	d) None		
8.	LAB - L - Labora is not likely to act as I AV	vis's pase?	d) CO2-		
	h HC	CIBI-	a) SO-4		
9,	had the fallowing oloctrobitic solling	on has the least suc	Cilic Coridacianos.		
	5) 2N b) 0 002N	C) U.UZIN	a) 0.2N		
10	a state of the and with East and H	O nives			
	a) Glycerose D) Oxalic aciu	C) I Official City do	d) Glyceric acid		
11	Which one of the following is correctly n	natched?	。 [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]		
11.	a) Emulsion i) Smoke	· ·			
	b) Col ii) butter				
	b) Gel ii) butter c) foam iii) Mist				
	c) toath				
	d) whipped cream iv) sol				
12	Ethanoic acid P/Br ₂ , 2 - bromo et	hanoic acid, this re	action is called		
12.		b) Haloform react			
	a) Finkelstein reaction	d) None of these			
	c) Hell – Volhard – Zelinsky reaction				
13.	IUPAC name of the amine H ₂ N CH ₂ (CH	b) Hexa methylen	e diamine		
	Offichion in the second of the				
	c) Hexane -1,6 - diamine	· · · · · · · · · · · · · · · · · · ·	en in .		
14.	The pyrimidine bases present in DNA ar	b) Cytosine & Ade	aning		
	a) Cytosine & Thiamine	b) Cytosine & Ade			
	c) Cytosine & Uracil	d) Cytosine & Gu	aiiiiu		
15.	Which one of the following is a bio-degi	A Mylon B	d) PHBV		
	a) HDPE b) PVC	c) Nylon 6	a) r r ib v		
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Part - II

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

6x2=12

- 16. What is the role of Limestone in the extraction of iron from its oxide Fe₂O₃?
- 17. Give the uses of Borex
- 13. Write a note on Fisher tropech synthesis.
- 19. Why transition elements forms coordination complex.
- 22. Sketch the following: (i) ECC (ii) FCC
- 21. Write any two examples for zero order reaction?
- State Faraday's Laws of electrolysis.
- 23. How does dilethyl ether reacts with excess of HI.
- 24. Rewrite the following in increasing order of boiling point CgHgOH, (CHg)2NH, C2HgNH2

Part - III

III. Answer any 6 questions. (Q.No.33 is compulsory)

6x3=18

25. How is Titanium refined? Explain.

- 26. Write the hybridisation and sketch the diagram for the following compounds.
 i) XeO₂ ii) XeOF,
- 27. Write a note on Linkage isomerism.
- 28. Write the types of molecular solids with examples.
- 29. What is pseudo first order reaction? Give an example.
- 30. Explain common ion effect with suitable example.
- 31. How will you convert currene into phenol.
- 32. Differentiate DNA and RNA
- 33. Find the pH of a buffer solution containing 0.20 mole per litre sodium acetate and 0.18 mole per litre acetic acid. Ka for acetic acid is 1.8×10^{-5} .

Part - IV

M. Answer all the questions.

5x5=25

(OR)

- 34. a) i) Describe the method for refining of Silver by electrolytic method (3)
 - ii) What are the limitations of Ellingham Diagram. (2) (OR)
 - b) i) What is ethyl borate test? (2)
 - ii) Differentiate graphite and diamond. (3)
- 35. a) i) What are internalogen compounds? Give examples. (2)
 - What are the consequences of lanthanoids. (3)
 - b) i) On the basis of the VB theory find out hybridisation, geometry, magnetism and magnetic moment of the complex [CoF6]3— (5)
- 36. a) i) Write a note on 1) Schottky defect 2) Frenkel defect (5)
 - b) i) Derive the integrated rate law for the first order reaction. (3)

ii) Write the solubility product of Ca₃(PO)₂. (2)

- 37. a) i) Derive an expression for Ostwalt dilution law. (5) (OR)
 - b) i) Write a note on electro osmosis. (3)
 - ii) Write a note on Riemer Tiemann reaction. (2)
- 38. a) i) Write the mechanism for Cannizaro reaction (3)
 - ii) How is nylon 6,6 prepared? (2) (OR)
 - b) i) An organic compound (A) of molecular formula C_2H_4 on reaction with alkaline KMnO₄ give (B). (B) on reaction with anhydrous $2nCl_2$ give compound (C) of molecular formula C_2H_4O . When (B) reacts with Conc. H_2SO_4 gives compound (D) of molecular formula $C_4H_8O_2$. Identify compound A, B, C and D, Explain the reactions. (5)