SECOND REVISION TEST - 2025



Standard XII

Reg.No.

CHEMISTRY

Tim	e : 3.00 hrs.	Pai	t-A		Marks :	70
١.	Choose the correct a		e de la collega		15 x 1 =	15
	Electrochemical proces		ract			
	a) Iron b)			d)	Silver	
2	Duralumin is an alloy of		The factor, risk	e Bost		
	a) Cu, Mn b)		c) Al, Mn	d)	Al, Cu, Mn, Mg	
3.	Among the following, which is the strongest oxidizing agent?					
	a) Cl ₂ b)		and the second s	d)	l_2	
4	Permanganate ion cha		n acidic medium.			
	a) MnO_4^{2-} b)	Mn ²⁺	c) Mn ³⁺	d)	MnO ₂	
5	Crystal field stabilizatio	n energy for high	n spin d ⁵ octahedral c	omple	x is	
	a) $-0.6 \Delta_{0}$ b)				$2(P + \Delta_o)$	
6	The crystal with a meta			3 10 10 19	. The state of the	
	a) NaCl b)				KCI	
7.	If 75% of a first order reaction was completed in 60 minutes 50% of the same reaction					
	under the same conditi				gazore i la elegio y Geologio	
	a) 20 minutes b)					
8.	Which of the following					
_	a) BF ₃ b)					
9.	Which of the following					
10	a) 2 N b)		C) U.UZ IN	a)	U.2 IN	
10.	Mayonnaise is colloidal		a) and in liquid	- 11	liquid in solid	
11	a) liquid in liquid b)		And the second s		and the second s	
11.	Which of the following (a) Methanol b)	= -			· · · · · · · · · · · · · · · · · · ·	
12	Which of the following i		THE RESERVE OF THE PERSON OF T	u)	FIIEIIOI	
12.	a) HCOOH b)	CH COOH	CACH COOH	d)	CH CH OH	
13	The product formed by	the reaction an	aldehyde with a prima	nv am	ine	
	a) Carboxylic acid b)					
	Which of the following a			۵,	Comm's base	
	a) Alanine b)			(b	Glycine	
15.	Non stick cookwares ge					
	a) ethane b) prop-2	The second secon			The second secon	
		Par	t-Besselin	$(\mathbb{Q}^{1}) \cap \mathbb{P}_{\mathbb{P}^{n}}$	March 1	
II.	Answer any 6 question	ns. (Q.No.24 is	compulsory)		6x2=1	12
	Describe the role of soc					
	Give any two uses of su		3 2 4 1 3			
18.	What are interstitial con	npound?	August Committee			
19.	Calculate the number o	f atoms in bcc u	nit cell? 🧗 🗸 💴	E_{i} at		
	Define pH.		,			
	Write a note on catalytic	c poison.				

2

XII Chemistry

- 22. Write the dehydration reaction of glycerol.
- 23. Write Coupling reaction.
- 24. Ethanoic acid SOCI₂ A Pd/BaSO₄ B. Find A and B.

Part - C

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

 $6 \times 3 - 18$

- Write a note on Zeolites.
- 26. Discuss briefly the nature of bonding in metal carbonyls.
- 27. Define rate law and rate constant.
- 28. State Kohlraush law. How is it useful to determine the molar conductivity of weak electrolyte at infinite dilution.
- 29. Write a note on electro osmosis.
- 30. Write the reactions of Ammonia with formaldehyde and acetaldehyde.
- 31. What are the functions of lipids in living organism.
- 32. How is terylene prepared? Any one use.
- 33. Establish a relationship between the solubility product and molar solubility for the following: a) BaSO₄ b) Ag₂(CrO₄)

Part - D

IV. Answer all the questions.

 $5 \times 5 = 25$

- 34. a) i) Describe a method of refining nickel. (3)
 - ii) Explain the electrometallurgy of Aluminium. (2)

(OR)

- b) Describe the preparation of K₂Cr₂O₇
- 35. a) Write the oxidation state, coordination number, nature of ligand magnetic property and electronic configuration in octahedral crystal field for the complex K₄[Mn(CN)₆] (OR)
 - b) i) Write short note on metal excess and metal deficiency defect with an example. (3) ii) Give two examples for first order reaction. (2)
- 36. a) Derive an expression for Nernst equation.

(OR

- b) Describe absorption theory of catalysis.
- 37. a) i) Explain Kolbe's reaction. (3)
 - ii) How anisole is prepared by Williamson ether synthesis. (2)

(OR)

- b) i) Write the structure of α -D(+) glucophyvanose. (2)
 - ii) What are biodegradable polymers. Give examples. (3)
- 38. a) Write short notes on the following:
 - i) Gabriel phthalimide synthesis (3)
 - ii) Schotten-Baumann reaction. (2)

(OR)

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b) Compound (A) C₆H₆O reacts with Zn form compound (B). (B) reacts with CO, HCl gives compound (C) C₇H₆O. (C) reacts with 50% NaOH gives compound (D) C₇H₈O. Find A, B, C and D.