SECOND MID TERM TEST -2022

CLASS: XII SUB: CHEM	ISTRY		TIME : 1.30HRS MARKS : 50
		PART-I	
CHOOSE THE	CORRECT ANSWE	CR C	10 X 1 =10
because a) Zinc is lig b) Zinc has le c) Zinc has le d) Zinc has	coated on iron to produ hter than iron ower melting point that ower negative electrod higher negative electro following electrolytic s	n iron e potential than iron de potential than iro	on
a) 2N	b) 0.002N	c) 0.02N	d) 0.2N
a) charge (b) charge (c) charge (d) charge (4. IUPAC name a) potassiumtr	ant is defined as carried by 1 electron carried by one mole or required to deposit one carried by 6.22 X 10 ¹⁰ of the complex is K ₃ [;ioxalatoaluminium(III	e mole of substance electrons, Al(C ₂ O ₄) ₃] is) b) potassiumtri	oxalatoaluminate(II)
· -			oxaratoarummate(111)
a) 4	l coordination number b) 6	c) 2	d)1
,	nplex geometry is	,	u) i
	b) Trigonal planar		d) Octahedral
	the following is not str		u) ocumentu
a) Cl	b) CN ⁻	c) NH ₃	d) CO
,	the following is most l	,	,
a) 2,4 – dichloroaniline		b)2,4- diethylamine	
c) 2,4 – dimethyl aniline		d) 2,4 – dinitroaniline	
9. When aniline	reacts with acetic anhy	dride the product fo	rmed is
a) o – aminoacetophenone.		b) m-aminoacetophenone	
c) p – aminoacetophenone.		d) acetanilide	
10. Secondary ni	itro alkanes react with	nitrous acid to form	

c) green solution d) yellow solution

a) red solution. b) blue solution

PART-II

ANSWER THE FOLLOWING ANY FIVE QUESTIONS

 $5 \times 2 = 10$

NOTE: QUESTION NO: 17 IS COMPULSORY

- 11. What is carbylamine rreaction
- 12 .In an octahedral crystal field draw the figure to show splitting of d orbitals
- 13. Define anode and cathode
- 14. .Define equivalent conductance
- 15. Give any two difference between double salt and coordination compound
- 16. Mention any two factors that affect electrolytic conductance
- 17. How is chloropicrin prepared?

PART-III

ANSWER THE FOLLOWING ANY FIVE QUESTIONS

5 X 3 = 15

NOTE: QUESTION NO: 24 IS COMPULSORY

- 18. what are the limitation of VB theory?
- 19. What is crystal field stabilization energy?
- 20. .[Ni(CO)₄] diamagnetic, explain using VB theory
- 21. write short note on Gabriel phthalimide synthesis?
- 22. Why PKb of aniline is more than ethylamine?
- 23. Write a electrolytic reduction of nitrobenzene?
- 24. Ionic conductance at infinite dilution of Al³⁺ and SO₄²⁻ 189 and 160 mho cm² equivalent calculate the equivalent and molar conductance of the electrolyte Al₂(SO₄)₃ at infinite dilution.

PART-IV

ANSWER ALL THE QUESTIONS

 $3 \times 5 = 15$

- 25. a) i)write the postulates of werner's theory(3)
 - ii) Write the IUPAC ligand name for the following (2)
 - a) $C_2O_4^{2-}$
- b) H₂O

(OR)

- b) based on the VB theory ,explain why[Ni(CN)₄]²⁻ it is diamagnetic.(5)
- 26. a) State kohlrausch law and explain any two of the application(5)

(OR)

- b) i)Derive an expression for Nernst equation(3)
 - ii) What are the conversion used Galvanic cell notation ?(2)

27.a) How will you distinguish between primary, secondary and tertiary aliphatic amines. (5) (OR)

- b)i)Nitrous acid react with primary and secondary amine and tertiary amine(3)
 - ii) write the mustard oil reaction ?(2)
