FIRST REVISION TEST - 2025 akwaacademy.blogspot.com

	Standard - XII	12/25	2121
Time: 3.00 hrs	CHEMISTRY	Lad a Pi	Marks:7
	PART - I		
Choose the correct answer.			15x1=
1. Wolframite ore is separated to	rom tinstone by the proce	ess of	
a) Smelting	b) Calcination	· · · · · · · · · · · · · · · · · · ·	
c) Roasting	d) Electromagnetic s	eparation	
2. Which of the following statem			
a) Beryl is a cyclic silicate			
b) Mg ₂ SiO ₄ is an orthosilicate			
c) (SiO ₄) ⁻⁴ is the basic structu	ral unit of silicates		
d) Feldspar is not aluminosili	cate		
3. Assertion: Bond dissociation	energy of fluorine is great	er than chlorine	gas.
Reason : Chlorine has more	electronic repulsion than t	luorine.	
a) Both assertion and reason assertion.	n are true and reason is the	ne correct explar	nation of
b) Both assertion and reason assertion.	n are true but reason is no	ot the correct exp	olanation of .
c) Assertion is true but reas	on is false d) Both asser	tion and reason	are false
4 4 72D		A STATE OF THE PARTY OF THE PAR	
a) TiCl _a b) [CoCl ₆] ⁴		Market Strategy Control of the Control	
5. Which of the following oxidati			
a) 4 b) 2	c) 5	d) 3	
6. IUPAC name of the complex			
a) potassium trioxalato alumir		trioxalato alumin	ate (II)
c) potassium trisoxalato alum	A Section of the sect	triòxalato alumin	and the same of th
7. The yellow colour of NaCl cry			
a) Excitation of electrons in F	* T * T * T * T * T * T * T * T * T * T		A TOTAL ST
b) reflection of light from Cl- ic			17 Part 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
c) refraction of light from Na ⁺	1 No. 1		
man state a charge	2 1/4/ No. 1	on the little will be	11 12 51.
8. If the initial concentration of the	e reactant is doubled, the	e time for half rea	action is also
O. II the miliar concentration of the		who have been and	Carry of the last

d) None

c) Fraction

doubled. Then the order of the reaction is

a) Zero

b) one

If the solubility product of lead iodide is 3.2 x 10⁻⁸, its solubility will be

a) 2×10^{-3} M

b) 4 x 10⁻⁴M

c) 1.6 x 10⁻⁵M

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d) 1.8 x 10⁻⁵M

10. Electrolyte	Kcl	KNO ₃	Hcl	NaOAc	NaCl
(S cm ² mol ⁻¹)	149.9	145.0	426.2	91.0	126.5

Calculate ^oHOAC using appropriate molar conductance of the electrolytes listed above at infinite dilution in water at 25°c.

a) 517.2

b) 552.7

c) 390.7

d) 217.5

11. Which one of the following has the greatest protective power of colloids.

Colloids	Gold number		
Gelatin	0.005-1		
Egg Albumin	0.08-0.10		
Gum Arabic	0.1-0.15		
Potato Starch	25		

- a) Gelatin
- b) Egg Albumin
- c) Gum Arabic
- d) Potato Starch
- ·12. On reacting with neutral ferric chloride, phenol gives.
 - a) red colour
 - b) violet colour
- c) dark green colour d) no colouration
- 13. The reagent used to distinguish between acetaldehyde and benzaldehyde is
 - a) Tollens reagent

- b) Fehling's solution
- c) 2,4 dinitrophenyl hydrazine
- d) semi carbazide
- 14. Vitamin B, is also known as
 - a) Riboflavin
- b) Thiamine
- c) Nicotinamide d) Pyridoxine
- 15. Non stick cook wares generally have a coating of a polymer, whose monomer is
 - a) ethane

b) prop-2-enenitrile

c) chloro ethene

d) 1,1,2,2-tetrafluoro ethane

PART - II

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

- 16. What is the role of lime stone in the extraction of iron from its oxide Fe₂O₃?
- 17. What is catenation? Describe briefly the catenation property of carbon.
- 18. What is linkage isomerism? Explain with an example:
- 19. Calculate the number of atoms in a fcc unit cell.
- 20. What happens when a colloidal Sol of Fe(OH)3 and As2O3 are mixed?
- 21. How will you prepare Malachite green from benzaldehyde?
- 22. Write any two uses of formic acid.

XII Chemistry

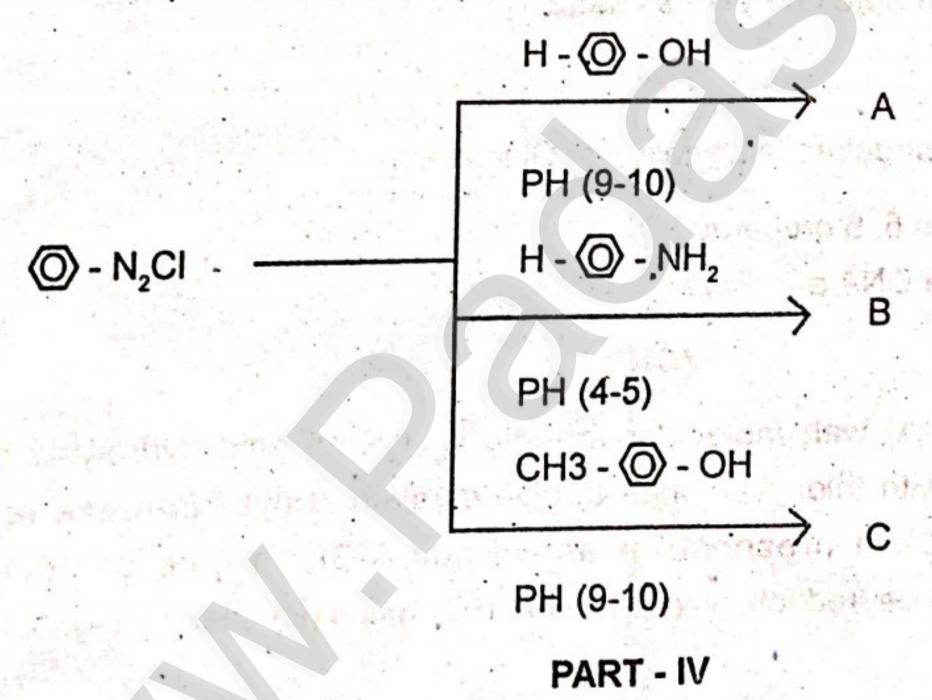
- 23. What are food preservatives? Give an example.
- 24. The rate constant for a first order reaction is 1.54 x 10⁻³s⁻¹. Calculate its half life time.

PART - III

Answer any 6 Questions. (Q.No.33 is compulsory)

6x3=18

- 25. Describe the structure of diborane.
- 26. How will you prepare chlorine by Deacon's process?
- 27. [Ti(H₂O)₆]³⁺ is coloured, while [Sc(H₂O)₆]³⁺ is colourless explain.
- 28. Explain common ion effect with an example.
- 29. State Faraday's Laws of electrolysis.
- 30. How will you convert phenol into the following compounds.
 - i) picric acid
- ii) phenalphthalein ..
- 31. Write a short note on peptide bond.
- 32. Write the mechanism of Aldol condensation.
- 33. Predict the product A, B, C in the following reaction.



	Answ	er all the questions.	5x5=2	5
		i) Explain the concentration of ores by Froth flotation process	(3)	
34. a)		ii) Why do transition elements form coordination compounds?		-
		(OR)		
	b)	b) i) Explain the postulates of Werner's theory.		
	,	ii) Give the uses of Helium.	(2)	

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b) A compound (A) with molecular formula C₂H₃N on acid hydrolysis gives (B) which reacts with thionyl chloride to give compound (C). Benzene reacts with compound (C) in presence of anhydrous AICI₃ to give compound (D). Compound (D) on reduction with zn/Hg / HCI gives (E) Identify (A), (B), (C), (D) and (E)

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