

COMMON FIRST REVISION TEST - 2023

Standard XII

Reg.No.: 01230

CHEMISTRY

_	e: 3.00 hrs. Part	- I	Marks: 70 15 x 1 = 15	
	Choose the correct answer:	Carlotte Allen at		
1.,	Wolframite ore is separated from tinsto		OI .	
	a) smelting	b) calcination		
	c) roasting	d) electromagneti	c separation	
.2.	Carbon atoms in fullerene with formula C ₆₀ have			
	a) sp ³ hybridised	b) sp hybridised		
	c) sp ² hybridised	d) partially sp ² and	I partially sp ³ hybridised	
3.	Which of the following is strongest acid	l among all?		
	a) HI b) HF	c) HBr	d) HCl	
4.	The transition element which has only -	+3 oxidation state is	المناوية المناوية	
	a) Ni b) Mn	c) Cr	d) Sc	
5.	IUPAC name of the complex K ₃ [Al(C ₂ O	₄) ₃] is		
	a) potassium tri oxalato aluminium (III) b) potassium tri oxalato aluminate (II)			
	c) potassium tris oxalato aluminate (III) d) potassium tr	i oxalato aluminate (III)	
6.	CsCl has bcc arrangement, its unit ce	Il edge length is 40	00 pm, its inter atomic	
	distance is			
	the state of the s		$(\sqrt{3})$	
	a) 400 pm b) 800 pm	c) $\sqrt{3} \times 100$ pm	d) $\frac{1}{2}$ × 400 pm	
7	The rate constant of a reaction is 5.8 x			
7.	a) first order b) zero order	c) second order	d) third order	
ρ	The pH of an aqueous solution is zero.			
0.	a) slightly acidic b) strongly acidic		d) basic	
q	Laptops have			
0.	a) Lead Storage battery	b) Fuel cell		
	c) Mercury Button cell	.d)	Lithium ion battery	
10.	Fog is colloidal solution of			
	a) solid in gas b) gas in gas	c) liquid in gas	d) gas in liquid	
11.	On reacting with neutral ferric chloride,	phenol gives		
	a) red colour	b) violet colour		
	c) dark green colour	d) no colouration		
12.	Assertion: 2,2-dimethyl propanoic acid does not give HVZ reaction.			
	Reason: 2,2-dimethyl propanoic acid does not have α -hydrogen atom			
	a) if both assertion and reason are tru	e and reason is the	correct explanation of	
	assertion			
	b) if both assertion and reason are true	e but reason is not t	the correct explanation	
	of assertion	18.11	d and folia	
	c) Assertion is true but reason is false	d) both assertion	and reason are raise	
13.	The product formed by the reaction an	aldenyde with a pri	mary anime	
	a) carboxylic acid b) aromatic acid	c) Schiff's base	d) ketone	
14.	Which of the following amino acids are	achirair	d) alucine	
4.5	a) alanine b) leucine	c) proline	d) glycine	
15.	The medicinal value of a drug is measu	b) gold number		
	a) deoxyribose	d) equilibrium con	stant	
	c) therapeutic index	a) equinonant con	old II	

Kindly send me your questions and answerkeys to us: Padasalai.Net@gmail.com

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XII Chemistry

Part - II II. Answer any 6 questions. (Q.No.24 is compulsory) $6 \times 2 = 12$ 16. What are the limitations of Ellingham diagram? 17. What are the factors responsible for the anomalous behaviour of first element of the p-block? 18. Why transition elements exhibit variable oxidation state? 19. Give any three characteristics of ionic crystals. 20. What are Lewis acid and bases? Give an example for each. 21. Convert glycerol to acrolein. 22. Give the tests for carboxylic acid group. 23. How is terylene prepared? -Na(Hg)/C₂H₅OH \longrightarrow CH₃ - CH₂ - NH₂ 24. Identify A and B: 4[H] $B \xrightarrow{\text{Na(Hg)/C}_2\text{H}_5\text{OH}} \text{CH}_3 - \text{NH} - \text{CH}_3$ Part - III III. Answer any 6 questions. (Q.No.33 is compulsory) 25. Give the uses of helium. 26. What are the difference between double salts and coordination compounds? 27. What is meant by Electro Osmosis? 28. Explain pseudo first order reaction with an example. 29. Explain common ion effect with example. 30. State Faraday's laws of electrolysis. 31. State any three advantages of food additives. 32. What are the difference between DNA and RNA? 33. Differentiate Primary, Secondary and Tertiary alcohols using Lucas test. Part - IV IV. Answer all the questions. $5 \times 5 = 25$ 34. a) Explain Froth floation process. (OR) What is inert pair effect? i) b) How will you prepare bleaching powder? What is Lanthanoid contraction? And what are the consequences of 35. a) Lanthanoid contraction? (OR) Based on the VB theory, explain why [Ni(CN),]2- is diamagnetic. What is crystal field splitting energy? 36. a) Write notes on Schottky and Frenkel effect. (OR) Derive an expression for Ostwald's dilution law. b) What are the difference between order and molecularity? 37. a) Derive an expression for Nernst equation. (OR) What are the characteristics of catalyst? (OR) Write the mechanism of aldol condensation reaction. 38. a Write short notes on: i) Mustard oil reaction ii) Gabriel phthalimide synthesis.