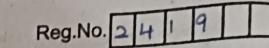
COMMON FIRST REVISION TEST - 2025 T

Standard - XII



Time: 3.00 hrs.

CHEMISTRY

Marks:70

	The second secon		A STATE OF THE PARTY OF THE PAR		
		PART -	-1		
nswer	all the question	s:		15×1=15	
1)	Roasting of sulph	ide ore gives the g	as (A). (A) is a col	ourless gas. Aqueous	
	solution of (A) is acidic. The gas (A) is				
	a) CO ₂	b) SO ₃	c) SO ₂	d) H ₂ S	
2)	The element that	does not show c	atenation among	the following p-block	
	element is			A	
		b) Silicon	c) Lead	d) Germanium	
, 3)	Which is true reg	arding nitrogen?		400	
	a) Least electron				
		tion enthalpy than			
			no lo		
			th itself	Pronument (s	
4)	Which of the follo			1. Descondon	
			iii) Cuprite		
			c) i, ii, iii		
5)) The numbers of six membered rings and five membered rings in				
	Buckminster fullerene fused ring system are respectively				
			b) 20 and 12	to noticopic (2)	
6)	c) 10 and 22	Della Maria (a	d) 22 and 10	Chi () Se ()	
0)		potassium perma	nganate oxidizes o		
	a) oxalate		b) carbon dioxide		
7)	c) acetate	r in NaCl crystal is	d) acetic acid	and any annually	
,,				Maria Janes (at	
	a) excitation of electrons in F centers b) reflection of light from Cl ⁻ ion on the surface				
c) reflection of light from Na ⁺ ion					
	d) all of the abov				
8)	The formula of m		C	4 274 1 2 3 1	
	a) $\mu = g\sqrt{s(s+1)}$				
	a) h - 3/2 (2+1)	THE RESERVE AND THE PERSON NAMED IN	b) $\mu = n \sqrt{n+2}$		

c) $\mu = \sqrt{n(n+2)}$

b) $\mu = n\sqrt{n+2}$

d) a and c

9) For the reaction,
$$2NH_3 \rightarrow N_2 + 3H_2$$
, if $\frac{-d[NH_3]}{dt} = K_1[NH_3]$, $\frac{-d[N_2]}{dt} = K_2[NH_3]$,

 $\frac{d[H_2]}{dt} = K_3[NH_3]$ then the relation between K_1 , K_2 and K_3 is

a) $K_1 = K_2 = K_3$

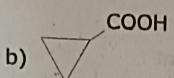
b) $K_1 = 3K_2 = 2K_3$

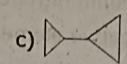
c) $1.5K_1 = 3K_2 = K_3$

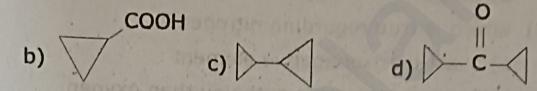
- d) $2K_1 = K_2 = 3K_3$
- 10) Total volume occupied by the spheres in SC unit cell is
 - a) $\frac{100\pi a^3}{6}$ b) $\frac{\sqrt{3}\pi a^3}{8}$ c) $\frac{\sqrt{2}\pi a^3}{6}$
- d) $\frac{\pi a^3}{6}$

11) Br $\xrightarrow{\text{Mg, ether}}$ A $\xrightarrow{\text{H}_3\text{O}^+}$ B. 'B' is









- 12) Ethylene glycol on treatment with HIO₄ gives

- a) Methanoic acid b) Glyoxal c) Methanal 13) Dissociation constant of NH_4OH is 1.8×10^{-5} the hydrolysis constant of NH4Cl would be
 - a) 1.8×10⁻¹⁹

- b) 5.55×10^{-10} c) 5.55×10^{-5} d) 1.80×10^{-5}
- 14) Which of the following is not Lewis base?
 - a) CN-

- b) SO₂ c) SO₄²⁻ d) CH₃⁻ 15) Oxidation of glycerol with _____ gives glycerose.
 - a) Br₂ / H₂O b) NaOBr
- c) Fe^{2+}/H_2O_2 d) All the above

PART - II

Answer any six questions. Q.No. 24 is compulsory:

- 16) What is acid leaching?
- 17) Write any two properties of Silicone.
- 18) What happens when PCI₅ is heated?
- 19) Calculate the number of unpaired electrons in Ti3+, Mn2+ and calculate the spin only magnetic moment.
- 20) What is meant by crystal lattice?
- 21) Give the difference between order and molecularity of a reaction.
- 22) What are buffer solution? Write their types.
- 23) How do you prepare aniline from phenol?
- 24) Write any two test for aldehyde.

PART - III

Answer any six questions. Q.No. 33 is compulsory:

(5)

- 25) Write the observations from the Ellingham diagram.
- 26) Draw the structure of Boric acid.
- 27) What happens when ammonia reacts with excess of chlorine?
- 28) Discuss the oxidising power of KMnO₄ in acidic medium.
- 29) Write a short note on metal excess defect.
- 30) Give three examples for first order reaction.
- 31) Write the limitations of Arrhenius concept and Lowry Bronsted theory.
- 32) Explain the Victor Meyer's test for primary alcohol.
- 33) Find the compounds A and B.

$$\begin{array}{c|c}
CH_3 \\
\hline
O \\
\hline
h_{\gamma}
\end{array}$$

$$\begin{array}{c}
CI_2 \\
\hline
h_{\gamma}
\end{array}$$

$$\begin{array}{c}
H_2O \\
\hline
373K
\end{array}$$
B

PART - IV					
Answer all the questions:	×5=25				
- the mid process	(3)				
	(2)				
ii) Give the uses of Zinc.					
(OR)	(5)				
b) Name the types of silicate and give an example of each.					
35) a) Give the difference between Crystalline solids and Amorphous	Give the difference between Crystalline solids and Amorphous solids.				
(OR)	(5)				
the factors affecting the reaction rate?	(2)				
	(3)				
ii) Explain the effect of catalyst on reaction rate.					
36) a) Derive an expression for Ostwald's dilution law.	(5)				
(OR)					
b) i) HF acid is not stored in glass bottles why?	(2)				
	(3)				
ii) Write about Holmes signal.	rongly				
37) a) i) Explain why Cr ²⁺ is strongly reducing while Mn ³⁺ is st	(2)				
oxidizing.	(3)				
ii) Out of Lu(OH) ₃ and La(OH) ₃ which is more basic and why	? (2)				
(OR)					
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b) Explain Saytzeff's rule with example.

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XII - Chemistry

38) a) Write the reaction of following compounds with ammonia.

(5)

(i) HCHO

(ii) CH₃-CHO

(iii) C₆H₅-CHO

(OR)

b) C₂H₄O organic compound 'A' reduces Tollens reagent. Compound 'A' reacts with Sodium hydroxide gives 'B'. Compound 'B' on heating with acid gives compound 'C'. Compound 'A' reduced with Zn-Hg and Con.HCl give compound 'D' C₂H₆. Find the compound A, B, C and D. (5)

Kindly Send Me Your Key Answer to Our email id - Padasalai.net@gmail.com