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Common First Revision Test - January 2025 CD-CI-RD25, Standard 12 Time Allowed: 3.00 Hours CHEMISTRY Maximum Marks: 70 FART-A 1 The pH of 10 <sup>-5</sup> M KOH solution will be a) 9 b) 5 c) 19 d) None of these 2) During electrolysis of molten sodium chloride, the time required to produce 0.1 mole of chlorine gas using a current of 3A is a) S5 minutes b) 107.20 minutes c) 220 minutes d) 330 minutes 3) Match the following: A) V, O, C) Peroxide - ii) High density poly ethylene B) Ziegler Natta - ii) PAN C) Peroxide - iii) NH <sub>3</sub> D) Finely divided Fe - iiv) H <sub>2</sub> SO <sub>4</sub> A B C D a) (v) (i) (ii) (iii) (b) (i) (iv) (iii) c) (iii) (iv) (iii) (b) (iii) (v) (iii) c) (iii) (iv) (iii) (b) (iii) (v) (iii) c) (iii) (iv) (iii) (b) (iii) (v) (iii) d) (iii) (v) (iii) (iv) (iii) (iv) (iii) c) electrophilic addition d) electrophilic substitution 5) The acid do b) Benzoic acid d) Oxallic acid 6) Zinc is obtained from ZnO by a) Carbon reduction b) SO <sup>4</sup> - acid d) Oxallic acid 6) Zinc is obtained from ZnO by a) SiO <sub>2</sub> b) - Si - O - c) R - O - Si - O d) - Si - O - O - R R R 8) On oxidation with Iodine, sulphite ion is transformed to a) SiO <sub>2</sub> b) - Si - O - c) R - O - Si - O d) - Si - O - O - R R R 8) On oxidation with Iodine, sulphite ion is transformed to a) SiO <sub>2</sub> b) - Si - O - c) R - O - Si - O d) - Si - O - O - R R R 8) On oxidation with Iodine, sulphite ion is transformed to a) SiO <sub>2</sub> b) - Si - O - c) R - O - Si - O d) - Si - O - O - R R R 8) On oxidation with Iodine, sulphite ion is transformed to a) SiO <sub>2</sub> b) - Si - O - c) R - O - Si - O d) - Si - O - O - R R R 8) On oxidation with Iodine, sulphite ion is transformed to a) SiO <sub>2</sub> b) - Si - O - c) R - O - Si - O - O - R R R 8) On oxidation with Iodine, Sulphite ion is transformed to a) SiO <sub>2</sub> c) O - C <sub>2</sub> < MO <sub>4</sub> - (c) [Cu(NH <sub>2</sub> ) <sub>4</sub> ] <sup>2+</sup> · d) [Ni(CN) <sub>4</sub> ] <sup>2</sup> 11) Aniline + Benzoyl chloride - XaH will be shown by one atomog the following a) TiCl <sub>4</sub> b) [COCl <sub>6</sub> ] <sup>4-</sup> c) [Cu(NH <sub>2</sub> ) <sub>4</sub> ] <sup>2+</sup> · d) [Ni(CN) <sub>4</sub> ] <sup>2+</sup> 11) Aniline + Benzoyl chloride - X	T-1100	Tenkasi District			
Standard 12Standard 12Time Allowed: 3.00 HoursCHEMISTRY PART - AMaximum Marks: 70I. Choose the best answer:15x1=151) The pH of 10 <sup>5</sup> M KOH solution will be a) 9b) 5c) 19d) None of thesea) 9b) 5c) 19d) None of thesea) 9b) 5c) 19d) None of thesea) 9b) 107.2 minutesc) 220 minutesd) 330 minutesa) 40.000glectrolysis of molten sodium chloride, the time required to produce0.1 mole of chlorine gas using a current of 3A is a) 35 minutesd) 330 minutesa) 40.000Glectrolysis of molten sodium chloride, the time required to produce0.1 mole of chlorine gas using a current of 3A is a) 35 minutesd) 330 minutesb) 40.000Glectrolysieiii) PANd) 330 minutesc) 7000Fractioniii) PANd) (iii) (iv) (iii) (iii) (iv) (iv	Tsi12C	1 - White States and a state of the state of	-	UUUU.	
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<b>Reason</b> : Rate constant also doubles.	15)	Assertion : Rate of reaction doub	it is a first order r	eaction.	
		Put a sector to a los do	ubles.		
<b>NINGLY SEND VIE YOUR NEV ADSWER TO UTIL EMAIL IN - PADASATAL DELCOMMAN COM</b>	Kindly Send Me Your Key Answer to Our email id - Padasalai.net@gmail.com				

#### www.Padasalai.Net

### Tsi12C

- 2
- a) Assertion is true but reason is false.
- b) Both assertion and reason are false.
- c) Both assertion and reason are true and reason is the correct explanation of assertion.
- d) Both assertion and reason are true but reason is not the correct explanation of assertion.

#### PART - B II. Answer any six questions: (Q.No. 24 is compulsory)

- 16) Give the basic requirement for vapour phase refining.
- 17) What is the hybridisation of Iodine in  $IF_7$ ? Give its structure.
- 18) What is crystal field splitting energy?
- 19) What is pseudo first order reaction?
- 20) Define Ionic product of water.
- 21) Addition of Alum purifes water. Why?
- 22) Explan Kolbe's reaction.
- What are narcotic and non-narcotic drugs? Give examples.

$$\bigcirc - \mathsf{NH}_2 + \mathsf{CS}_2 \xrightarrow{\Delta} \textcircled{A} \xrightarrow{\mathsf{Con.HCl}} \textcircled{B}$$

#### PART - C

# III. Answer any SIX questions: (Q.No. 33 is compulsory)

- 25) Write the uses of zinc.
- 26) Write a short note on hydroboration.
- 27) Out of Lu(OH)<sub>3</sub> and La(OH)<sub>3</sub> which is more basic and why?
- 28) Explain metal excess and metal deficiency defeat with an example.
- 29) Peptising agent is added to convert precipitate in to colloidal solution. Explain with an example.
- 30) How is Acrolein formed?
- 31) Write a short note on peptide bond.
- 32) Convert Benzaldehyde in to cinnamic acid.
- 33) Calculate the molar conductance of 0.025 M aqueous solution of calcium chloride at 25°C. The specific conductance of calcium chloride is 12.04×10<sup>-2</sup> sm<sup>-1</sup>.

#### PART - D

## IV. Answer ALL the questions:

- 34) a) Explain Froth Floatation process.
  - b) Describe the structure of diborane.
- 35) a) i) What are hydrata isomers? Explain with an example.
  - ii) What is crystal field stabilization energy?

### (OR)

- b) What is Lanthanoid contraction and what are the consequences of Lantanoid contraction?
- 36) a) Calculate the percentage efficiency of packing in case of body centred cubic crystal. (OR)
  - b) i) Define pH.
    - ii) Derive an expression for Ostwald's dilution law.
- 37) a) State Kohlrausch law. How is it useful to determine the mola conductivity of weak electrolyte at infinite dilution? SIVAKUMAR M,

#### (OR)

- b) Write notes on Victor Meyer's test.
- 38) a) Write notes on
  - Vallen -627 829 i) Rosen mund reduction ii) Knoevenagal reaction (OR)
  - Tenkasi Dist. b) i) Give the differences between primary and secondary structure of proteins.
    - ii) How the transquilizers work in body?

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

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6×3=18

5×5=25 (OR)

Soi Rammitric Itss,

6×2=12