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Tsi12C Tenkasi District First Revision Examination - 2024			
22-Ul-2024 Standard 12			
	00 Hours CHEMISTR Part - A		Marks: 70
I. Choose the best answer. 15x1=15			
1)	Which one of the following is used as a a) FeO b) CaO	c) SiO ₂	d) FeSiO ₃
2) 3)	The elements belongs to Group 17 and a) metallords b) metals i) H_2SO_4 - Dibasic acid ii) H_3PO_3 - tribasic acid iii) H_3PO_4 - mono basic acid iv) H_3PO_3 - Mono base acid, W	c) Nonmetals	d) Both a & b
		C_{j} (m) \sim (m)	e correct? d) (i) & (iv)
	Transition elements having + 3 oxidation a) Ni b) Mn Isomerism exhibited by the compound	c) Cr	d) Se
a.	a) Co-oxtination isomerism c) optical isomerism	b) Linkage isomerisd) Geometrical isom	nerism
6)	Which of the following crystal conduct a) molecular crystal c) Metallic crystal	b) Ionic Crystal b) all of these	
7)	75% of a order reaction completes in complete 50% is	60 mins, then the	
		c) 35 mints s 3.2 × 10 ⁻⁸ its solu c) 1.6 × 10 ⁻⁵ M	d) 75 mints bility will be d) 1.8 × 10 ⁻⁵ M
		c) Co	d) F
	When $\Delta S < 0$ & T ΔS gets negative sign thena) adsorption is exothermicb) absorption is exothericc) adsorption is endothermicd) absorption is endothermic		
-	Which of the following carboxylic acid	c) prop-2enrl I cannot be prepare	d) prop 1-enol ed from grignard
	Reagent? a) CH_3CH_2COOH b) CH_3COOH	c) HCOOH	d) C ₆ H ₅ COOH
13)	13) Aniline + BenzoylChloride $\xrightarrow{\text{NaOH}} C_6H_5$ NHOC – C_6H_5 . This reaction is known as		
14)	 a) Fredel - Craff's reaction c) Schotten - Bauman reaction The Pyrimidine bases present in DNA and 	 b) HVZ reaction d) Cannizero React re. 	tion
	a) Cytosine and Adenine c) Cytosine and Thiamine	b) Cytosine and Vi d) Cytosine and Ur	
15)	Nylon is an example of a) poly amide	b) polythene	
2	c) polyester	d) polysaccharide	
Part - B			
II. Answer any six. Q.No. 24 is compulsory. 6x2=12			
 16) Distinguish Ore and Minerals 17) What are inter halogen compounds? Give two examples. 			

- 17) What are inter halogen compounds? Give two examples.
- 18) What is double salt? Give example.
- 19) What is co-ordination number? What is the co-ordination number of atoms in a bcc structure
- 20) Derive the relation between half life period and First order rate constant.

Kindly send me your answer keys to us - padasalai.net@gmail.com

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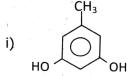
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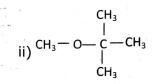
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21) Conductivity decreases, when dilution increases. Why?

2

22) Write the IUPAC Names





- 23) How will you prepare Nylon₆.
- 24) Complete the reaction $P_4 + NaOH + H_2O \rightarrow$

Part - C Wer any six O No. 33 is compulsor

III. Answer any six. Q.No. 33 is compulsory.25) Define the following.

- i) Roasting ii) Calcination
- 26) Write note on Fisher Tropsch synthesis.
- 27) $[Ti(H_2O)_6]^{3+}$ is coloured, while $[Se(H_2O)_6]^{3+}$ is colourless. Why?
- 28) Explain Frenkal defect
- 29) Derive Ostwald dilution law
- 30) Complete the following reactions.

i)
$$OH \xrightarrow{C_6H_3COCI} A \xrightarrow{\text{Nitration}} B$$

 $C_6H_5 - CH - CH - CH - (CH_3)_2 \xrightarrow{Con H_2SO_4}$
ii) I
OH

- 31) There are two isomers with the formula CH_3NO_2 . How will you distinguish bewteen them?
- 32) What are drugs? How they are classified?
- 33) Aluminium Crystalizes in cubic close packed structure. Its metallic radius is 125 pm. Calculate the Edge length of the unit cell.

Part - D

IV. Answer all the questions

- 34) a) Explain Zone refining process.
 - (OR)
 - b) i) Write any two conditions for catenation.
 - ii) Why HF cannot be stored in glass bottles?
- 35) a) Explain Werner's theory.

(OR)

- b) i) What is Fardays' First Law.
 - ii) Derive Henderson Equation
- 36) a) i) Derive the integrated rate equation for zero order reaction.
 - ii) Explain the types of coagulation.

(OR)

- b) Derive Nernst Equation
- 37) a) From Phenol how will you obtain
 - (i) Phenol pthalein (ii) Saliaslic and (iii) Benzene **(OR)**
 - b) i) Write the mechanism of Cannizaro's Reaction
 - ii) What is trans Esterification.
- 38) a) Write note on (i) Gabriel Pthalimide syntheses
 - (ii) What is diazotisation

(OR)

b) i) Write any three dist b/w DNA & RNAii) What are antibodies.

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6x3=18

5x5=25