# 12th CBSE CHEM SET - 1 CODE 56/3/1

- Which of the following does not show variable oxidation states? 1.
  - Fe (A)
  - Cu (B)
  - Mn (C)
  - Sc. (D)



- The type of isomerism shown by the complex  $[CoCl_2(en)_2]^+$  is : 2.
  - (A) Ionisation isomerism
  - Geometrical isomerism- $(\mathbf{B})$
  - (C) Linkage isomerism
  - Coordination isomerism (D)
- Which of the following is diamagnetic in nature? 3.
  - Co<sup>3+</sup>, octahedral complex with strong field ligand (A)
    - Co<sup>3+</sup>, octahedral complex with weak field ligand (B)
    - Co3+, in a square planar complex (C)
    - Co<sup>3+</sup>, in a tetrahedral complex (D) [ Atomic number : Co = 27 ]





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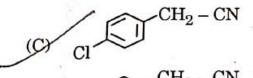
Consider the following reaction: 4.

$$CI$$
  $CH_2 - CI$   $KCN$  ?

The major product of the reaction is:

(A) 
$$NC$$
  $CH_2 - CN$ 

(B) 
$$NC$$
  $CH_2 - CI$ 



(D) 
$$Cl$$
  $CH_2 - CN$ 

- Which one of the following compounds has the lowest pKa value? 5.
  - p-Cresol (A)

p-Nitrophenol (B)

m-Nitrophenol

- 2,4,6-Trinitrophenol -
- (CH<sub>3</sub>)<sub>2</sub>CH O CH<sub>3</sub> when treated with HI gives: 6.
  - (A) (CH3)2CH - I + CH3OH ..
  - $(CH_3)_2CH OH + CH_3 I$ (B)
  - (C)  $(CH_3)_2CH - I + CH_3 - I$
  - (D)  $(CH_3)_2CH - OH + CH_3OH$



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- Which of the following compounds on treatment with benzene sulphonyl 7. choride forms an alkali-soluble precipitate?
  - (A) CH3CONH2
  - (B)  $(CH_3)_3N$
  - (CH<sub>3</sub>)<sub>2</sub>NH (C)
- CH3CH2NH2
- The order of increasing basicities of CH3NH2 (I), (CH3)2NH (II), 8. (CH<sub>3</sub>)<sub>3</sub>N<sub>4</sub>(III) and C<sub>6</sub>H<sub>5</sub>NH<sub>2</sub> (IV) in aqueous media is :
  - IV < III < I < II.
    - II < I < IV < III(B)
    - (C) I < II < III < IV
    - II < III < I < IV(D)



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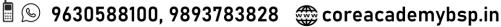
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### 12th CBSE CHEM SET - 1 CODE 56/3/1

- The vitamin which plays an important role in coagulating blood is: 9.
  - Vitamin A (A)
  - Vitamin E (B)
  - (C) Vitamin D
  - Vitamin K  $(\mathbf{D})$
- 10. When a catalyst increases the rate of a chemical reaction, then the rate constant (k):
  - remains constant
  - (B) decreases
  - (C) increases
  - may increase or decrease depending on the order of the reaction
- A 1% solution of solute 'X' is isotonic with a 6% solution of sucrose (molar 11. mass =  $342 \text{ g mol}^{-1}$ ). The molar mass of solute 'X' is:
  - 34.2 g mol-1
  - (B) 57 g mol-1
  - (C) 114 g mol<sup>-1</sup>
  - (D) 3·42 g mol<sup>-1</sup>

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- During the electrolysis of aqueous NaCl, the cathodic reaction is: 12.
  - Oxidation of Cl ion (A)
  - Reduction of Na<sup>+</sup> ion (B)
  - Oxidation of H<sub>2</sub>O (C)



Reduction of H2O .

For Questions number 13 to 16, two statements are given - one labelled as Assertion (A) and the other labelled as Reason (R). Select the correct answer to these questions from the codes (A), (B), (C) and (D) as given below.

- Both Assertion (A) and Reason (R) are true and Reason (R) is the (A) correct explanation of the Assertion (A).
- (B) Both Assertion (A) and Reason (R) are true, but Reason (R) is not the correct explanation of the Assertion (A).
- Assertion (A) is true, but Reason (R) is false. (C)
- Assertion (A) is false, but Reason (R) is true. (D)
- Assertion (A): Addition of ethylene glycol to water lowers its freezing 13. point.
  - Ethylene glycol is insoluble in water due to lack of its Reason(R): ability to form hydrogen bonds with water molecules.

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- Assertion (A): Order of reaction and molecularity are always same for 14. d complex reactions.
  - Order is determined experimentally and molecularity is Reason (R): applicable only for elementary reactions.
- Assertion (A): The boiling point of ethanol is higher than that of 15. dimethyl ether.
  - Reason(R): Ethanol molecules are associated through hydrogen abonding whereas in dimethyl ether, it is not possible.
- Assertion (A): Aniline does not undergo Friedel-Crafts reaction. 16.
  - Reason (R): Friedel-Crafts reaction is an electrophilic substitution b reaction.
- Define molal depression constant. How is it related to enthalpy of 17. (a) fusion?

#### OR

(b) What type of deviation is shown by ethanol and acetone mixture? Give reason. What type of azeotropic mixture is formed by that deviation?.







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Ans. (17) Molal deposession constant -The deparession in freezing point when one mole of the solute is dissolved in 1000 gm. of the solvent is called molal depression Constant.

- 9t is expensed as Kf.
  - The gelation between molal deposession constant (kg and enthalpy of fusion (DH) is given by the following equation -

Theye = MA = Molan mass of solvent Tr = Freezing point of solvent SHF = entholpy of fusion. Kf = molol depression Constant R = universal gas constant

(b) Mixture of ethanol and acet one shows positive deviation from Rapult's Law.

In pure ethanol, molecules are by drogen bonded on adding acetone, its molecule get in between the host molcarle and byeak some of the hydrogen bonds between them.

Upon mixing ethanol and acetone, they fourm minimum boiling azeotrope mixtuye.

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- 18. In a reaction, if the concentration of reactant 'X' is tripled, the rate (a) of reaction becomes twenty-seven times. What is the order of the reaction?
  - State a condition under which a bimolecular reaction is kinetically a (b) first-order reaction. Give an example of such a reaction. 1+1=2

Then 
$$9 = 100 = 1$$

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A bimolecular geaution can be a first order equation Kinelically, if one of the year-ambigure taken in access, go this condition the. Concent-gation of the georgiant, which has taken in access doesn't affect the gate Acid cataly seed hydrolysis of ethyl acetate.

(Pseudo first order yeartim) CH3-1-0GH5-+ H20 (excess) + GH5-0H

Complete the following ionic equations: 19.

(a) 
$$2\text{MnO}_4^- + 5\text{SO}_3^{2-} + 6\text{H}^+ \rightarrow$$

(b) 
$$\text{Cr}_2\text{O}_7^{2-} + 14\text{H}^+ + 6\text{Fe}^{2+} \rightarrow$$

201 (19)

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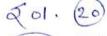
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Which halogen compound in the following pair will react faster in (a) 20. S<sub>N</sub>2 reactions and why?

$$\mathrm{CH}_3 - \mathrm{CH}_2 - \mathrm{I} \quad \mathrm{OR} \quad \mathrm{CH}_3 - \mathrm{CH}_2 - \mathrm{Br}$$

Why is chloroform stored in closed dark coloured bottles? (b)

1+1=2



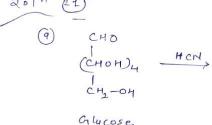
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- (a) CH3-CH\_-I Will year faster than CH3 - CH2 - Bor, because TO is good leaving D' chloro form oxidised in presence of air and light and form toxic phospens gas.
- Give reaction of glucose with the following: 21.

 $2\times 1=2$ 

- HCN (a)
- Conc. HNO<sub>3</sub>



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3

3

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A solution is prepared by dissolving 5 g of a non-volatile solute in 200 g of 22. water. It has a vapour pressure of 31.84 mm Hg at 300 K. Calculate the molar mass of the solute.

(Vapour pressure of pure water at 300 K = 32 mm Hg)

$$\frac{201. (22)}{P^{\circ} - P_{s}} + \frac{Raoult's low-}{M_{B}} \times \frac{M_{A}}{M_{A}}$$

$$\frac{32 - 31.84}{32} = \frac{.5}{M_{B}} \times \frac{.18}{200}$$

$$\frac{32 - 31.84}{32} = \frac{.5}{M_{B}} \times \frac{.18}{200}$$

The conductivity of 0.2 M solution of KCl is  $2.48 \times 10^{-2}$  S cm<sup>-1</sup>. Calculate 23. its molar conductivity and degree of dissociation ( $\alpha$ ).

Given:

$$\lambda_{K^{+}}^{0} = 73.5 \text{ S cm}^{2} \text{ mol}^{-1}$$

$$\lambda_{\text{Cl}^-}^0 = 76.5 \text{ S cm}^2 \text{ mol}^{-1}$$

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### 12th CBSE CHEM SET - 1 CODE 56/3/1

$$\frac{\sqrt{601 \cdot 23}}{\sqrt{1000}} = \frac{\sqrt{1000}}{\sqrt{1000}} = \frac{\sqrt{1000}}{\sqrt{10000}} = \frac{\sqrt{1000}}{\sqrt{1000}} = \frac{\sqrt{1000}}{\sqrt{1000}} = \frac{\sqrt{1000}}{\sqrt{1$$

A first-order reaction is 25% complete in 40 minutes. Calculate the value of rate constant. In what time will the reaction be 80% complete? [Given:  $\log 2 = 0.30$ ,  $\log 3 = 0.48$ ,  $\log 4 = 0.60$ ,  $\log 5 = 0.69$ ]

Sol. (24) 
$$K = \frac{2.303}{t} \log_{10} \left(\frac{9}{9-2c}\right) \rightarrow \text{ yate constant}$$

$$\therefore \quad \text{Will be constant for the yeating}$$

$$at for the given temp, so.$$

$$\text{Ho Min.} \leftarrow \frac{t_1}{t_2} = \frac{\log_{10} \left(\frac{9}{9-2c}\right)_{25}}{\log_{10} \left(\frac{9}{9-x}\right)_{80}}$$

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No.

24.



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- What type of nucleophilic substitution ( $\mathrm{S}_{\mathrm{N}}1$  or  $\mathrm{S}_{\mathrm{N}}2$ ) occurs in the (a) 25. hydrolysis of 2-Bromobutane to form (±)-Butan-2-ol? Give reason.
  - What happens when chlorobenzene and methyl chloride are (b) 2+1=3treated with sodium metal in dry ether?

(3°-ally holide) undergoes 
$$5N^2$$
.

(3°-ally holide) undergoes  $5N^2$ .

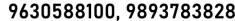
(43-CH2-CH-CH3 + KOH (aq.)  $\xrightarrow{5N^2}$  CH3-CH2-CH-CH3

BY

(By the formation of Pent-avalent transition state).

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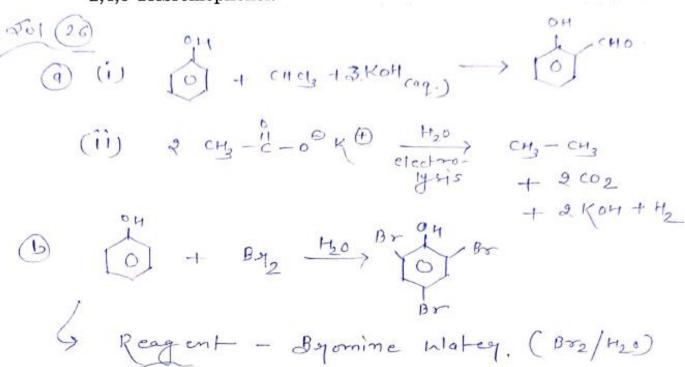




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- Write the equations of the reactions involved in the following: (a) 26.
  - Reimer-Tiemann reaction (i)
  - Kolbe's reaction (ii)
  - Name the reagent used in the bromination of phenol to form (b) 2+1=32,4,6-Tribromophenol.



- How will you bring about the following conversions? (any three) 27.

- Benzoic acid to Benzaldehyde (a)
- Ethanal to Propanone (b)
- Acetophenone to Benzoic acid (c)
- Bromobenzene to 1-Phenylethanol (d)

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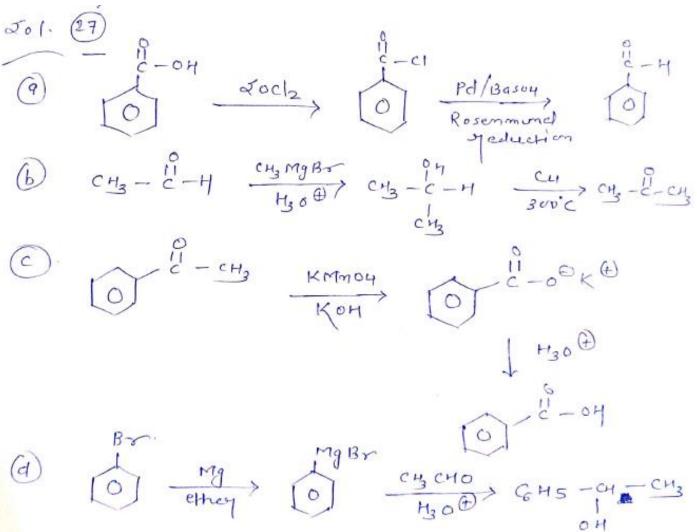


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Give the structures of A, B and C in the following reactions:  $2 \times 1\frac{1}{2} = 3$ 28.

$$2 \times 1\frac{1}{2} = 3$$

(a) 
$$CH_3CH_2Cl \xrightarrow{KCN} A \xrightarrow{LiAlH_4} B \xrightarrow{HNO_2} C$$

(b) Fe/HCl 
$$\rightarrow$$
 A  $\xrightarrow{\text{NaNO}_2 + \text{HCl}}$  B  $\xrightarrow{\text{C}_6\text{H}_5\text{OH}}$  C

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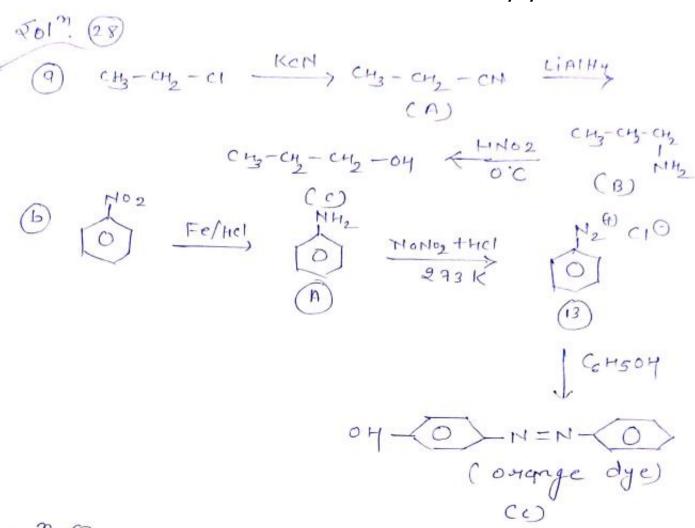




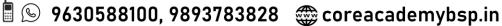


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1

2

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The involvement of (n-1)d electrons in the behaviour of transition 29. elements impart certain distinct characteristics to these elements. Thus, in addition to variable oxidation states, they exhibit paramagnetic behaviour, catalytic properties and tendency for the formation of coloured ions. The transition metals react with a number of non-metals like oxygen, nitrogen and halogens. KMnO4 and K2Cr2O7 are common examples.

The two series of inner transition elements, lanthanoids and actinoids, constitute the f-block of the periodic table. In the lanthanoids, there is regular decrease in atomic size with increase in atomic number due to the imperfect shielding effect of 4f-orbital electrons which causes contraction.

Answer the following questions:

- Why do transition metals and their compounds act as good (a) catalysts?
- What is the cause of contraction in the atomic size of lanthanoids? 1 (b)
- Define lanthanoid contraction. How does it affect the atomic radii of (c) the third transition series and the second transition series? 2

#### OR

In aqueous media, which is a stronger reducing agent (c) Cr2+ or Fe2+ and why?

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201 (29)

- a Due to the tendency to adopt multiple oxidation states and to from complexes.
- Poory shielding effect of 4f electrons (b)
- Do it yourself. C

cy+2 is stronger geducing agent, because in formation of cy+2 to cy+3 changes is from d4 to d3. 9m d3 electronic configuration to g outsital is half filled.

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Proteins are the most abundant biomolecules of the living system. 30. Proteins are the polymers of about twenty different α-amino acids which are linked by peptide bonds. Ten amino acids are called essential amino acids. In zwitter ionic form, amino acids show amphoteric behaviour as they react both with acids and bases.

On the basis of their molecular shape, proteins are classified into two types: Fibrous and Globular proteins. Structure and shape of proteins can be studied at four different levels i.e., primary, secondary, tertiary and quaternary, each level being more complex than the previous one. The secondary or tertiary structure of proteins get disturbed on change of pH or temperature and they are not able to perform their functions. This is called denaturation of proteins.

#### Answer the following questions:

- (a) What are essential amino acids?
- What is meant by zwitter ionic form of amino acids? 1 (b)
- Give one example each for Fibrous protein and Globular (i) (c) protein.
  - What type of linkages hold monomers of proteins together?  $2 \times 1=2$ (ii)

#### OR

- What is the structural feature which characterises a reducing (i) (c) sugar?
  - What is the structural difference between nucleoside and (ii)  $2 \times 1 = 2$ nucleotide ?

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(a) (i) Calculate emf of the following cell at 25°C: 31.

$$\begin{split} &Zn\left(s\right) \; \big| \; Zn^{2+}\left(0.001M\right) \; \big| \; \big| \; Cd^{2+}\left(0.1\;M\right) \; \big| \; Cd\left(s\right) \\ &Given: \; E^{o}_{Zn^{2+}/Zn} = -\; 0.76\; V, \; \; E^{o}_{Cd^{2+}/Cd} = -\; 0.40\; V \quad [\log\;10=1] \end{split}$$

(ii) State Faraday's second law of electrolysis. How will the pH of aqueous NaCl solution be affected when it is electrolysed? 3+2=5

OR

Calculate the  $\Delta_r G^o$  and log  $K_c$  for the following cell reaction : (b) (i)

Fe (s) + Ag<sup>+</sup> (aq) 
$$\rightleftharpoons$$
 Fe<sup>2+</sup>(aq) + Ag (s)  
Given:  $E_{Fe^{2+}/Fe}^{o} = -0.44 \text{ V}, \ E_{Ag^{+}/Ag}^{o} = +0.80 \text{ V},$   
1 F = 96500 C mol<sup>-1</sup>

- (ii) Write any two advantages of the fuel cells over primary and secondary batteries?
- How many Faradays are required for the oxidation of 1 mole of  $H_2O$  to  $O_2$ ?

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Figure 501. 31

(a) (i) E'cell = Ecothode - Fomode

$$= -0.40 - (-0.76)$$

$$= -0.40 + 0.76,$$

$$= 0.36 ...$$

Fixed = Ecell - 0.059 | 09 [P]

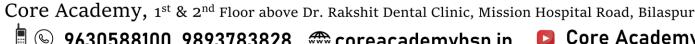
$$= 0.36 - 0.059 | 199 [D]$$

$$= 0.36 - 0.059 | 199 [D]$$

$$= + 0.419 ...$$

(ii) Theory based.

(ii) Theory based.







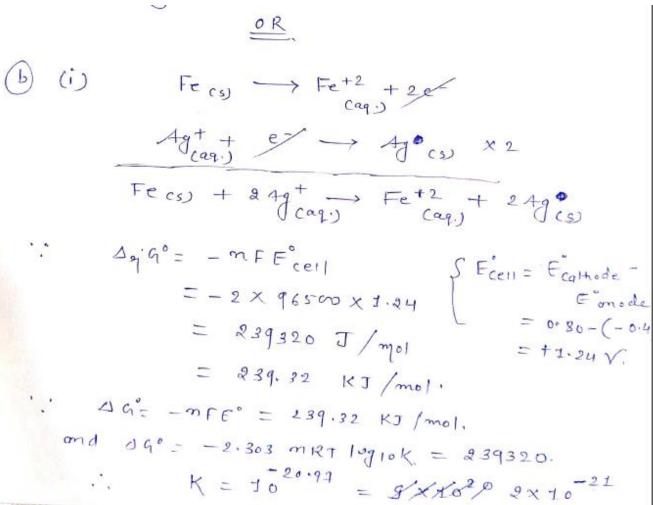






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$$F_{cell} = E - \frac{0.0591}{2} \text{ Ly. } \frac{(Z_n^{2+})}{[Cd^{2+}]}$$

- (ii) do it.
- (b) (c) 19° = -2.303 RT log Keq.
  - (ii) It produce pure water and Not discharge
  - (iii) 2 H2O -> O2 + 4H+ + 4e-1 mol

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Write the major product(s) in the following reactions: 32.

(1) 
$$\bigcirc CH_2CH_3 \xrightarrow{a) \text{ KMnO}_4, \text{ KOH}} ?$$

(2) 
$$CHO + CH_3 - C - CH_3 \xrightarrow{\text{dil NaOH}} ?$$

(3) 
$$\frac{\text{COOH}}{\text{Br}_2 / \text{FeBr}_3} ?$$

(ii) Give simple chemical tests to distinguish between the following pairs of compounds :

(2)Pentanal and Pentan-3-one

3+2=5

#### OR

- (b) Give reasons for the following: (i)
  - (1) In semicarbazide, only one - NH2 group is involved in the formation of semicarbazone.
  - (2)Acetaldehyde is more reactive than acetone towards addition of HCN.
  - (ii) (1) Arrange the following in decreasing order of their acidic strength:

CH<sub>3</sub>COOH, O<sub>2</sub>N - CH<sub>2</sub> - COOH, HCOOH

Name the reagent in the following reaction: (2)

$$CH_3 - CH = CH - CH_2 - CN \xrightarrow{?}$$
  
 $CH_3 - CH = CH - CH_2 - CHO$ 

Write the reaction involved in Hell-Volhard-Zelinsky reaction. (iii)

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2+2+1=5









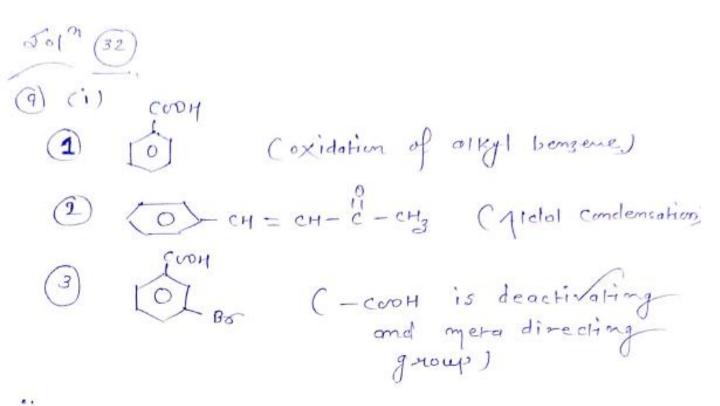


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(ii)

Haloform test

2) Tollen's yeagent







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1) NHZ-NH-Z-NHZ -> The e.p. of other NHZ group is. clelocalised and involved

Due to +I effect of - cHz group.

(iii)

QH-CH2-COOH > HCOOH > CH3 COOH.

Incl, /HCI (Stephen's yeduction).

(iii) Do it yourself.

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#### 33. Attempt any five of the following:

 $5\times1=5$ 

(a) Write the IUPAC name of the complex:

 $[\mathrm{Co}(\mathrm{H_2O})(\mathrm{CN})(\mathrm{en})_2]^{2+}$ 

- Why is geometrical isomerism not possible in tetrahedral complexes (b) having two different types of unidentate ligands coordinated with the central metal ion?
- Arrange the following complex ions in increasing order of their crystal field splitting energy  $(\Delta_0)$ :

 $[Co(NH_3)_6]^{3+}$ ,  $[CoF_6]^{3-}$ ,  $[Co(CN)_6]^{3-}$ 

(d) . Write the hybridization and magnetic character of the complex [Ni(CO)<sub>4</sub>] on the basis of valence bond theory.

[Atomic No. : Ni = 28]

- (e) Out of  $[CoF_6]^{3-}$  and  $[Co(C_2O_4)_3]^{3-}$ , which one complex is :
  - (i) more stable?
  - the high spin complex? (ii)
- (f) What is the difference between an ambidentate ligand and bidentate ligand?
- Write the electronic configuration of d<sup>5</sup> in terms of t<sub>2g</sub> and e<sub>g</sub> in an (g) octahedral field when:
  - (i)  $\Delta_0 > P$ , and (ii)  $\Delta_0 < P$



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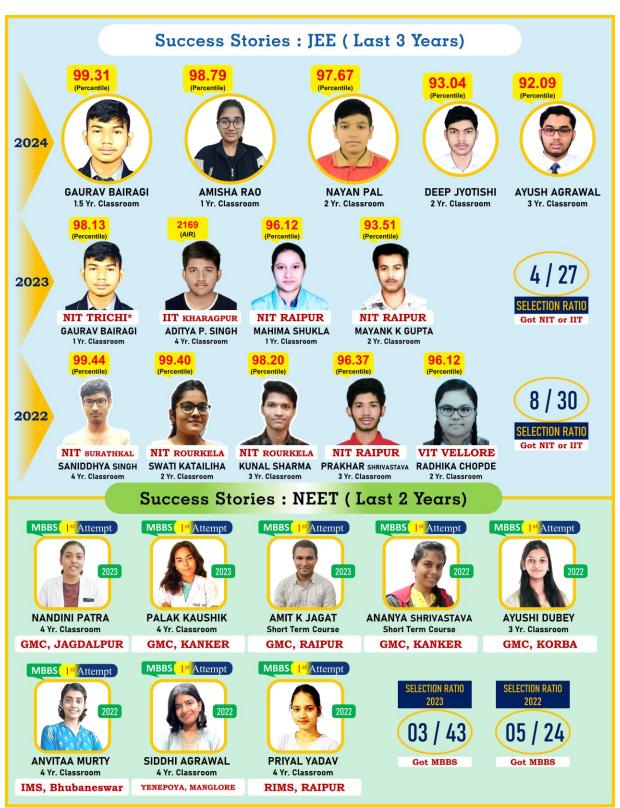
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