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Class 12



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A COLLECTION OF
COMPULSORY QUESTIONS

SUBJECT:

CHEMISTRY

MR. SS PRITHVI

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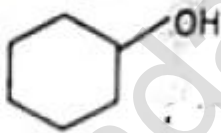
FIRST MID TERM

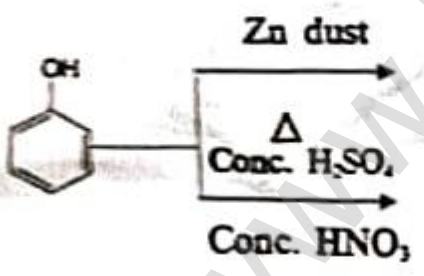
1	CO is a reducing agent. Justify with an example.
2	Barium has a body centered cubic unit cell with a length of 508 pm along an edge. What is the density of barium in g cm^{-3} .
3	Complete the following reaction: $\text{CH}_3\text{-O-CH}_2\text{CH}_3 + \text{HI} \xrightarrow{\Delta}$
4	Calculate the number of atoms in a fcc unit cell.
5	The rate constant for a first order reaction is $1.54 \times 10^{-3} \text{ s}^{-1}$. Calculate its half life time. {repeated}
6	Sodium metal crystallizes in bcc structure with the edge length of the unit cell $4.3 \times 10^{-8} \text{ cm}$. Calculate the radius of the sodium atom.
7	Write the equation when ter-butyl methyl ether allowed to react with 1 mole of HI.
8	Calculate the percentage efficiency of packing in case of face centred cubic crystal.
9	EXPLAIN WILLIAMSON SYNTHESIS OF PREPARING ETHER.

10	Define metamerism. Give one example.
11	In the reaction, Ethanol $\xrightarrow{\text{PCl}_5}$ X $\xrightarrow{\text{alc.KOH}}$ Y. Identify 'X' and 'Y'.
12	COMPLETE THE REACTION: 2 - Methyl propene $\xrightarrow{\text{H}_2\text{SO}_4/\text{H}_2\text{O}}$?
13	DESCRIBE THE STRUCTURE OF DIBORANE
14	Show that in case of first order reaction, the time required FOR 99.9% completion is nearly ten times the time required for half completion of the reaction. <i>{repeated}</i>
15	WRITE KOLBE'S REACTION.
16	DEFINE AVERAGE RATE AND INSTANTANEOUS RATE.
17	Distinguish between order of a reaction and molecularity of a reaction.
18	Atom 'X' is present at the corners of the cube and atom 'Y' is at the centre of the cube in bcc crystalline structure. What is the formula of the compound? ✓
19	Show that for a first order reaction half life is independent of initial concentration.

20	Sodium metal crystallizes in bcc structure with the edge length of the unit cell 4.3×10^{-8} cm. Calculate the radius of sodium atom.
21	HOW IS PHENOL PREPARED FROM: 1)CHLORO BENZENE 2)ISOPROPYL BENZENE
22	Calculate the number of atoms in a FCC unit cell.
23	calculate the percentage efficiency of packing in case of Face centered cubic Crystal
24	23. Barium has a body centered cubic unit cell with a length of 508pm along an edge. What is the density of barium.
25	How will you prepare butan-2-ol from Grignard reagent?

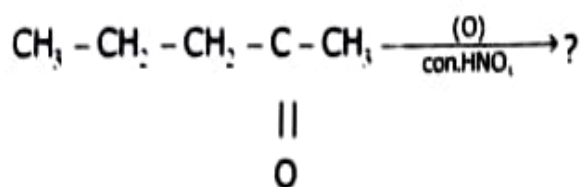
QUARTERLY

1	Identify the conjugate acid base pair for the following reaction in aqueous solution. i) $\text{NH}_4^+ + \text{CO}_3^{2-} \rightleftharpoons \text{NH}_3 + \text{HCO}_3^-$ ii) $\text{HC}_2\text{O}_4^- + \text{PO}_4^{3-} \rightleftharpoons \text{HPO}_4^{2-} + \text{C}_2\text{O}_4^{2-}$
2	What happens when Ammonia react with following compounds? a) Acetaldehyde b) Benzaldehyde
3	Write the expression for the solubility product of $\text{Ca}_3(\text{PO}_4)_2$. {repeated}
4	Write IUPAC name for the following structure. i) $\text{CH}_2 = \text{CH} - \text{CH}_2 - \text{OH}$ ii) 
5	$\text{CH}_3\text{CN} \xrightarrow{\text{Na/C}_2\text{H}_5\text{OH}} \text{A} \xrightarrow{\text{HNO}_2} \text{B}$. Identify A and B.
6	Calculate the molar solubility of 1M AgNO_3 solution if the KSP of AgCl is 1.8×10^{-10} .
7	IDENTIFY THE ORDER OF THE FOLLOWING REACTIONS 1) RUSTING OF IRON 2) RADIOACTIVE DISINTEGRATION OF ${}_{92}\text{U}^{238}$. 3) ACID HYDROLYSIS OF AN ESTER

	4) c) $2A + 3B \rightarrow \text{product}$, Rate = $k(A)^{1/2} (B)^2$. {repeated}
8	Compound (A) with a molecular formula C_7H_6O reacts with Cl_2 in the presence of a catalyst gives (B) and without catalyst gives (C). Find (A) (B) & (C).
9	<p>Arrange the following compounds in the increasing order of the property indicated against each.</p> <p>(i) CH_3CH_2OH, CF_3CH_2OH, CCl_3CH_2OH (Acidic nature).</p> <p>(ii) Propanol, Propane, Propanal (Boiling point).</p> <p>(iii) Formic acid, Propanoic acid, acetic acid (Acidity).</p> <p>{repeated}</p>
10	PHENOL IS DISTILLED WITH Zn dust followed by friedel-crafts alkylation with propyl chloride to give a compound (A), (A) on oxidation gives (B). identify A and B.
11	<p>From the following reaction, identify A and B.</p> <div style="text-align: center;">  </div>
12	Calculate the number of unpaired electrons in Ti^{2+} , Mn^{2+} and calculate the spin only magnetic moment?

13	<p>Arrange the following in the increasing order of their property indicated.</p> <p>a) Benzoic acid, phenol, picric acid, silicic acid (Pka)</p> <p>b) Ethanol, ethanoic acid, benzoic acid (boiling point)</p>
14	<p>A hydride of 2nd period metal (A) on reaction with compound of boron (B) to give a reducing agent (C). Identify A,B,C.</p>
15	<p>Complete the following:- a) $C_6H_5OCH_3 + HI \rightarrow ?$ b) $C_2H_5-O-CH_3 + HI \rightarrow ?$</p>
16	<p>Write IUPAC name for</p> <p>a) C_6H_5CHO b) $CH_3 - \underset{\substack{ \\ OH}}{CH} - CH_3$</p>
17	<p>Calculate the pH of 0.4M HNO_3 solution [Log 4 = 0.6021]</p>
18	<p>Show that in case of 1st order reaction, the time required for 99.9% completion is nearly ten times the time required for half completion of the reaction.</p> <p>{repeated}</p>
19	<p>Explain – why atomic radius of zinc is greater than copper.</p>
20	

24) Complete the following reaction



21

Write the expression for the solubility product of Hg_2Cl_2 .

22

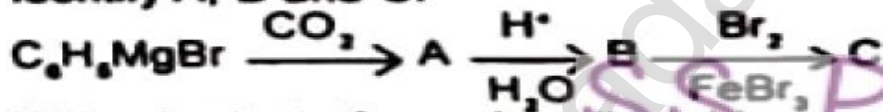
Which is more stable Fe^{2+} (or) Fe^{3+} ? Explain.

23

K_b for NH_4OH is 1.8×10^{-5} . Calculate the percentage of ionisation of 0.06M. ammonium hydroxide solution.

24

Identify A, B and C.



25

Phenol is treated with 20% nitric acid at room temperature gives a mixture of compound A and B. In these compound A and B, the compound B is more soluble in water than compound A why? Identify the compound A and B.

26

Establish a relationship between the solubility product and molar solubility for the following
a) Ag_2CrO_4 b) $\text{Ca}_3(\text{PO}_4)_2$

{repeated}

27

Ethanoic acid $\xrightarrow{\text{SOCl}_2}$ A $\xrightarrow{\text{Pd/BaSO}_4}$ B $\xrightarrow{\text{NaOH}}$ C Find A, B, C.

SECOND MID TERM

1

A conductivity cell has two platinum electrodes separated by a distance 1.5 cm and the cross sectional area of each electrode is 4.5 sq cm. using this cell, the resistance of 0.5N electrolytic solution was measured as 15 Ω . Find the specific conductance of the solution.

2

A solution of silver nitrate is electrolysed for 20 minutes with a current of 2 amperes. Calculate the mass of silver deposited at the cathode.

{repeated}

3

Nitrobenzene does not undergo Friedel-Crafts reaction- Give reason.

4

What is Chloropicrin? How is it prepared?

5

In the complex $[\text{Pt}(\text{NH}_3)_2(\text{NO}_2)_2]\text{Cl}$ Identify the following:

a) Central metal atom/ion

b) Ligands

c) Coordination number

d) IUPAC name

6

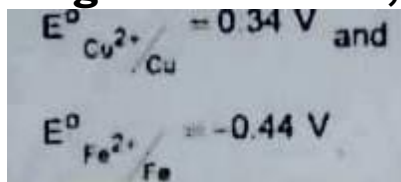
Calculate pH of 0.1M CH_3COOH solution K_a for acetic acid is 1.8×10^{-5}

7

What is buffer index ?

8	Write any two electrophilic substitution reactions of nitro benzene.
9	Calculate the standard emf of the $\text{Cd} \text{Cd}^{2+} \text{Cu}^{2+} \text{Cu}$ and determine the cell reaction. The standard reduction potentials of $\text{Cu}^{2+} \text{Cu}$ and $\text{Cd}^{2+} \text{Cd}$ are 0.34V and -0.40volts respectively. Predict the feasibility of the cell reaction.
10	For the $[\text{CoF}_6]^{3-}$ ion the mean pairing energy is found to be 21000 cm^{-1} . The magnitude of Δ_0 is 13000 cm^{-1} . Calculate the crystal field stabilisation energy (CFSE) for this complex ion corresponding to low spin and high spin states.
11	Complete the following chemical reaction. i) $\text{C}_6\text{H}_5\text{NO}_2 \xrightarrow[4(\text{H})]{\text{Zn}/\text{NH}_4\text{OH}} ?$ ii) $\text{CH}_3\text{NO}_2 + 3\text{Cl}_2 \xrightarrow{\text{NaOH}} ?$ iii) $2\text{C}_6\text{H}_5\text{NH}_2 + \text{CS}_2 \xrightarrow{\Delta} \text{A} \xrightarrow[\Delta]{\text{Conc. HCl}} \text{B}$
12	Addition of Alum purifies water. Why?
13	$[\text{Co}(\text{NH}_3)_4\text{Cl}_2]\text{Cl}$ - write down the following terms for the above complex. (i) IUPAC name (ii) Oxidation number of central metal ion (iii) Ligands and its types
14	Is it possible to store copper sulphate in an iron vessel for a

long time? Given,



15

What is the major product obtained when 2,3-dimethyl pentan-3-ol is heated in the presence of H_2SO_4 ?

16

Write the expression for the solubility product of Hg_2Cl_2 .

17

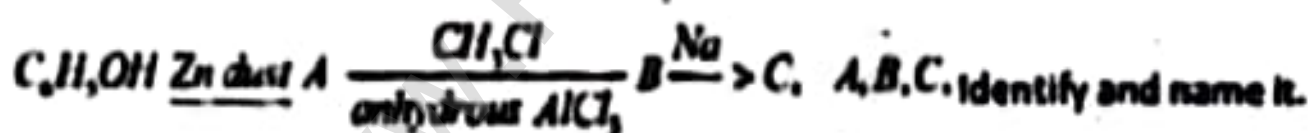
Write about lithium-ion battery

HALF YEARLY

1

Distinguish nitro and aciforms.

2



3

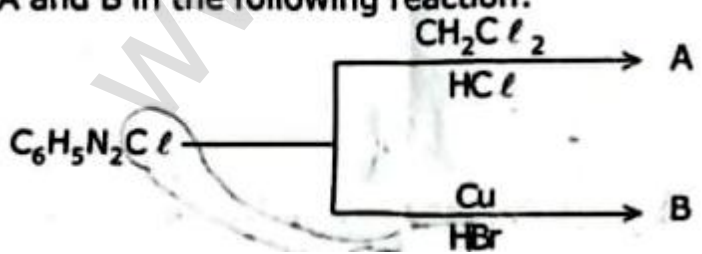
Write short notes on Gomberg reaction ? **{repeated}**

4

Can Fe^{3+} oxidises Bromide to bromine under standar conditions?

Given $E^\circ_{\text{Fe}^{3+}/\text{Fe}^{2+}} = 0.771 \text{ V}$ $E^\circ_{\text{Br}_2/\text{Br}^-} = 1.09 \text{ V}$.

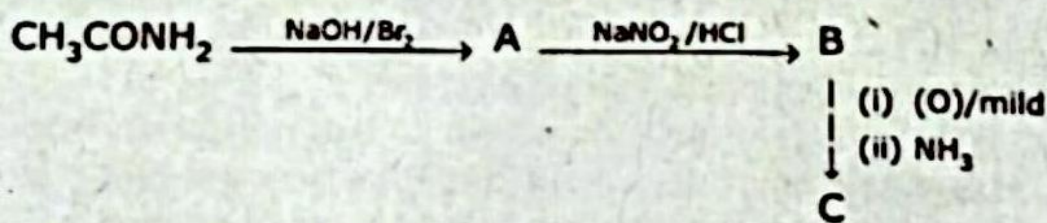
Calculate the electro chemical equivalent of silver in silver nitrate.

5	Identify A, B and C $\text{Ethanoic acid} \xrightarrow{\text{SOCl}_2} \text{A} \xrightarrow{\text{Pd / BaSO}_4} \text{B} \xrightarrow{\text{NaOH}} \text{C}$
6	Why is AC current used instead of DC in measuring the electrolytic conduction?
7	Write the two isomers with the formula CH_3NO_2 . How will you distinguish between them?
8	Calculate the extent of hydrolysis and the pH of 0.1 M ammonium acetate. Given that $K_a = K_b = 1.8 \times 10^{-5}$.
9	A copper electrode is dipped in 0.1 M Copper Sulphate solution at 25°C . Calculate the electrode potential of copper. [Given : $E^\circ\text{Cu}^{2+}/\text{Cu} = 0.34\text{V}$].
10	Write short notes on transesterification reaction.
11	Identify A and B in the following reaction: 
12	Write the structure of α - D (+) glucopyranose. {repeated}

Identify A, B and C

$\text{CH}_3\text{NH}_2 \longrightarrow \begin{cases} \xrightarrow{\text{CH}_3\text{Br}} \text{A} \\ \xrightarrow{2\text{CH}_3\text{Br}} \text{B} \\ \xrightarrow{3\text{CH}_3\text{Br}} \text{C} \end{cases}$

Find out the compounds A, B and C



20

Distinguish between antiseptics and disinfectants.

REVISION-1&2

1

A solution of silver nitrate is electrolysed for 20 min with a current of 2 amperes. Calculate the mass of silver deposited at the cathode.

2

Show that in case of first order reaction, the time required for 99.9% completion is nearly ten times the time required for half completion of the reaction.

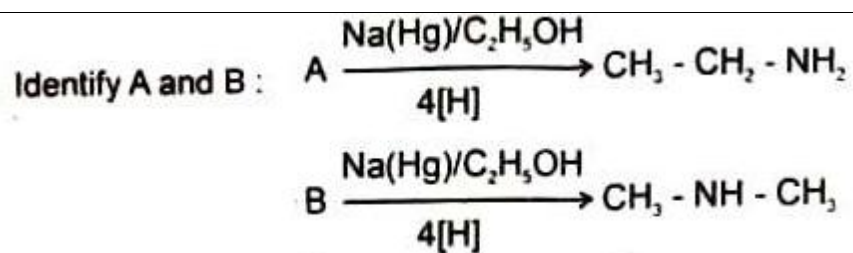
3

Identify A and B. Ethanoic acid $\xrightarrow{\text{SOCl}_2}$ A $\xrightarrow{\text{Pd}/\text{BaSO}_4}$ B

4

Ionic conductance at infinite dilution of Al^{3+} and SO_4^{2-} are 189 and 160 $\text{mho cm}^2 \text{equiv}^{-1}$. Calculate the equivalent and molar conductance of the electrolyte $\text{Al}_2(\text{SO}_4)_3$ at infinite dilution.

5



6

Differentiate primary, secondary and tertiary alcohols using Lucas test.

7

Draw the structure of zwitter ion.

8

Account for the following Ethylamine is soluble in water whereas aniline is not

9

CONVERT ETHENE TO ETHANE-1,2 di-ol.

10

Calculate the pH OF 0.04M HNO_3 SOLUTION ?

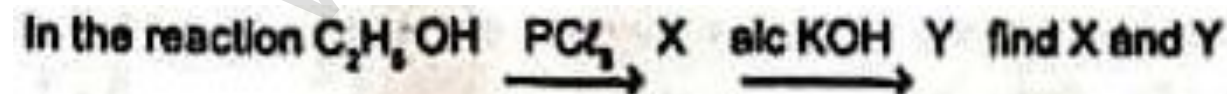
11

How will you get P-hydroxy azo benzene fro phenol ?

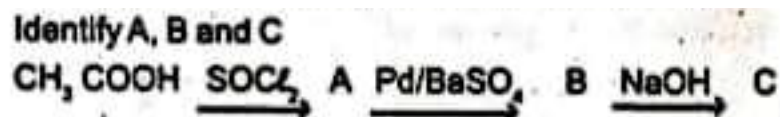
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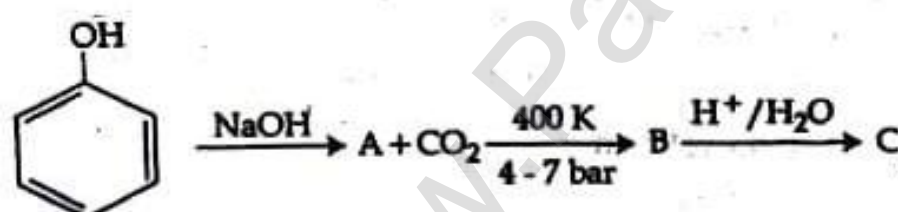


13



14



15	Aniline does not undergo friedal-craft reaction. Why ?
16	A first order reaction is 40% complete in 50 minutes. Calculate the value of the rate constant. In what time will the reaction be 80% complete?
17	How will you prepare malachite green ?
18	K _{sp} pf AgCl is 1.8×10^{-10} . Calculate molar solubility in 1 M AgNO ₃ .
19	ZnO is colourless at room temperature, but it turns yellow color on heating, why ?
20	Find A, B and C of the following reaction.  $\text{C}_6\text{H}_5\text{OH} \xrightarrow{\text{NaOH}} \text{A} + \text{CO}_2 \xrightarrow[4-7 \text{ bar}]{400 \text{ K}} \text{B} \xrightarrow{\text{H}^+/\text{H}_2\text{O}} \text{C}$
21	The half life of the homogeneous gaseous reaction $\text{SO}_2\text{Cl}_2 \rightarrow \text{SO}_2 + \text{Cl}_2$ which obeys first order kinetic is 8.0 minutes. How long will it take for the concentration of SO_2Cl_2 to be reduced to 1% of the initial value?
22	

Identify the enzyme catalyst in the following reactions:

a) Oxidation of ethanol into acetic acid

b) Hydrolysis of starch into maltose

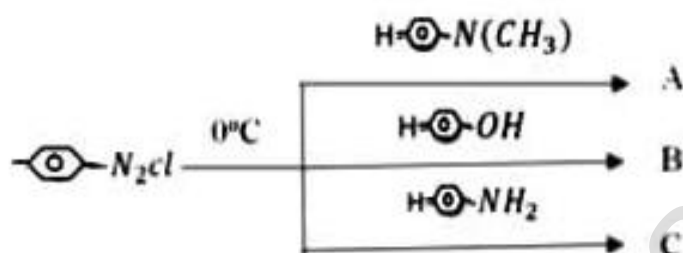
c) Hydrolysis of urea

23

What are sugar substituents ? Give examples.

24

Identify compounds A, B and C



25

Calculate the molar conductance of 0.001M aqueous KCl solution at 25°C. The specific conductance of KCl at 25°C is $14.114 \times 10^{-2} \text{ Sm}^{-1}$

26

Calculate the packing fraction in simple cubic unit cell.

27

Write SandMeyer's reaction.

28

Mention any three characteristics of catalyst ?

29

Write the IUPAC names of the following :

(i) $\text{CH}_2=\text{CH}-\text{CHO}$

Prop-2-enal

(ii) $\text{CH}_3-\text{C}-\text{CH}_3$

Propan-2-one

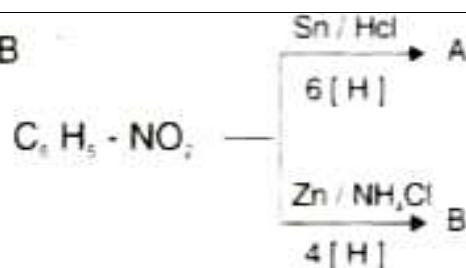
(iii) $\text{HOOC}-(\text{CH}_2)_2-\text{COOH}$

Butanedioic acid

PART - IV

30	What are fat soluble vitamins?
31	Calculate the concentration of OH^- ion in a fruit juice, which contains $2 \times 10^{-3} \text{M}$ H_3O^+ ion. Identify the nature of the solution.
32	How will you conduct the following changes? a) Acetone \rightarrow Diacetone amine b) Formaldehyde \rightarrow Hexamethylene tetramine c) Benzaldehyde \rightarrow Hydro benzamide
33	Complete the following reaction: $\text{CH}_3\text{CHO} \xrightarrow{\text{NH}_2\text{-OH}} \text{A} \xrightarrow{\text{P}_2\text{O}_5} \text{B}$
34	An organic compound (A) having molecular formula $\text{C}_3\text{H}_6\text{O}$ is heated with Zinc amalgam and hydrochloric acid produces compound (B) having molecular formula C_3H_8 . Identify A and B.
35	An organic compound (A) - $\text{C}_3\text{H}_8\text{O}_3$ used as a sweetening agent, which on oxidation with Fenton's reagent gives a mixture of compounds B and C. Identify A, B and C. Write possible reactions.
36	

From the following reaction, identify A and B



37

A solution of silver nitrate is electrolysed for 20 minutes with a current of 2 amperes. Calculate the mass of silver deposited at the cathode.

38

Define equivalent conductance.

39

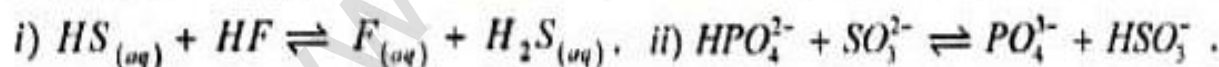
An organic compound (A) $\text{C}_3\text{H}_9\text{N}$ when treated with nitrous acid, gave an alcohol (B) and N_2 gas. (A) undergoes carbylamine reaction to give (C) which on reduction gave isopropyl methylamine. Identify the compound (A), (B), (C) and write the equations.

40

K_{sp} of AgCl is 1.8×10^{-10} . Calculate molar solubility in 1M AgNO_3 .

41

Identify the conjugate acid base pair for the following reaction in aqueous solution.



42

- Arrange the following in the increasing order of their reactivity. CH_3CONH_2 , CH_3COCl , $(\text{CH}_3\text{CO})_2\text{O}$ and $\text{CH}_3\text{COOCH}_2\text{CH}_3$
- Arrange the following in the decreasing order of their acidity. CH_3OH , C_2H_2 , CH_3COOH , H_2O and $\text{C}_6\text{H}_5\text{OH}$.

43	Draw the structure of trimethylamine and mention the following. i) Hybridisation of 'N' atom ii) C-N-C bond angle and C-N bond length
44	A copper electrode is dipped in 0.1M copper sulphate solution at 25°C. Calculate the electrode potential of copper. (Given:- $E^{\circ}_{\text{Cu}^{2+}/\text{Cu}} = 0.34\text{V}$)
45	A first order reaction is 40% complete in 50 minutes. Calculate the value of the rate constant. In what time will the reaction 80% complete?
46	How will you prepare the following rubbers? a) buna-N b) buna-S
47	The activation energy of a reaction is 225K cal mol^{-1} and the value of rate constant at 40°C is $1.8 \times 10^{-5} \text{ s}^{-1}$. Calculate the frequency factor 'A'. <i>A = Arrhenius formula</i>
48	What are sugar substituents? Give examples.
49	A copper electrode is dipped in 0.1M copper sulphate solution at 25°C. Calculate the electrode potential of copper. (Given:- $E^{\circ}_{\text{Cu}^{2+}/\text{Cu}} = 0.34\text{V}$)
50	Give IUPAC names for the following compounds. I. $\text{CH}_2=\text{CHCH}_2\text{NH}_2$ II. $\text{CH}_3\text{-NH-CH(CH}_3)_2$
51	Ionic conductance at infinite dilution of Al^{3+} and SO_4^{2-} are 189 and 180 $\text{mho cm}^3 \text{ equiv}^{-1}$. Calculate the equivalent and molar conductance of the

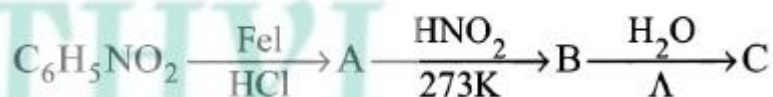
	electrolyte $\text{Al}_2(\text{SO}_4)_3$.
52	Write the Zwitter ion structure of alanine.
53	Differentiate physisorption and chemisorption.
54	The K_a value for HCN is 10^{-9} . What is the pH of 0.4M HCN solution?
55	How is chloropicrin prepared ?
56	There is only a marginal differences in decrease in ionisation enthalpy from aluminium to thallium - Explain. Why?
57	Calculate the no. of atoms present per unit cell in FCC.
58	Identify, compounds A, B and C. $\text{C}_6\text{H}_5\text{NO}_2 \xrightarrow{\text{Fe/HCl}} \text{A} \xrightarrow{\text{HNO}_2} \text{B} \xrightarrow{\text{C}_6\text{H}_5\text{OH}} \text{C}$
59	An aromatic simplest nitro compound A on reduction using Sn/HCl gives B. B undergoes carbylamine reaction . Identify A and B.
60	Write the expression for the solubility product of $\text{Ca}_3(\text{PO}_4)_2$ and Hg_2Cl_2

PUBLIC AND PTA**1**

50ml of 0.05M HNO_3 is added to 50ml of 0.025M KOH. Calculate the pH of the resultant solution.

2

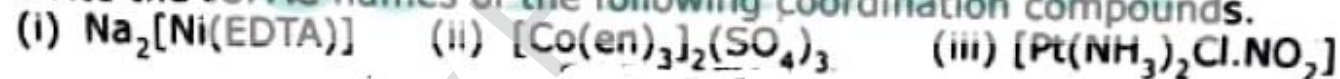
Identify A to C in the following sequence?

**3**

Give the schematic representation of proper and improper alignment of reactant for a general reaction $\text{A}_2 + \text{B}_2 \rightarrow 2\text{AB}$.

4

Write the IUPAC names of the following coordination compounds.

**5**

Why is C–O–C bond angle in ether slightly greater than the tetrahedral bond angle?

6

There is only a marginal difference in decrease in ionisation enthalpy from Aluminium to Thallium - Explain why?

7

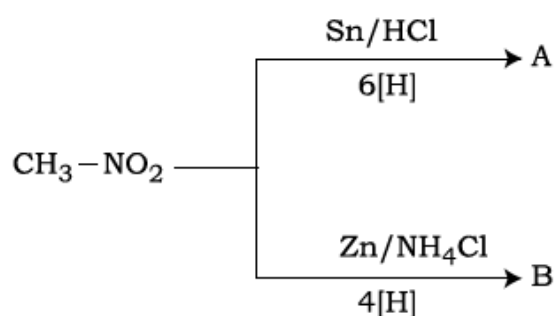
Write a note on denaturation of proteins.

8

A solution of silver nitrate is electrolysed for 30 minutes with a current of 2 amperes. Calculate the mass of silver deposited at the cathode.

9

From the following reaction, identify A and B.



10

Classify the following into covalent, molecular, ionic and metallic solids.

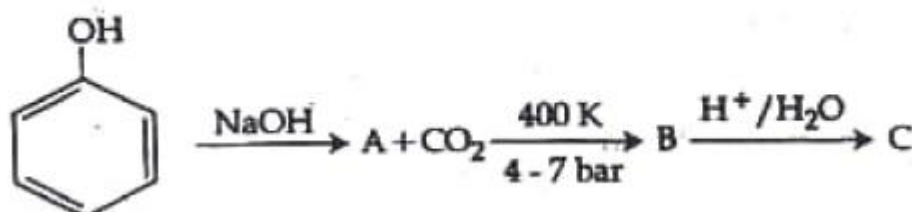
- | | | |
|------------------|-------------|-----------------------|
| (i) Diamond | (ii) Brass | (iii) NaCl |
| (iv) Naphthalene | (v) Glucose | (vi) SiO ₂ |

11

ZnO is colorless at room temperature, but it turns yellow color on heating, why?

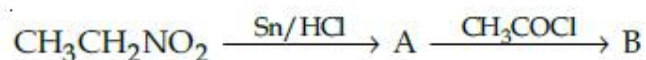
12

Find A, B and C of the following reaction.



13	Write a note on HVZ reaction.
14	Calculate the pH and pOH of 0.001 M HCl solution.
15	<p>Identify A and B in the following sequence of reactions.</p> $\text{CH}_3 - \text{Br} \xrightarrow{\text{NaN}_3} \text{A} \xrightarrow{\text{LiAlH}_4} \text{B} + \text{N}_2$
16	<p>Write the following for the complex $[\text{Ag}(\text{NH}_3)_2]^+$.</p> <p>(a) Ligand (b) Central metal ion (c) IUPAC name</p>
17	A solution of silver nitrate is electrolysed for 20 minutes with a current of 2 amperes. Calculate the mass of silver deposited at the cathode.
18	<p>Identify compounds A, B and C for the following.</p> $\begin{array}{lcl} & \xrightarrow{\text{Sn/HCl}} & \text{A} \\ \text{C}_6\text{H}_5 - \text{NO}_2 & \xrightarrow{\text{Zn/NH}_4\text{Cl}} & \text{B} \\ & \xrightarrow{\text{Zn/NaOH}} & \text{C} \end{array}$
19	

Identify the compounds A and B in the following sequence of reactions.



20

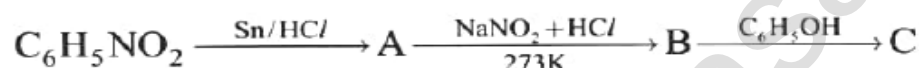
Show that in case of first order reaction the time required for the completion of 99% is twice the time required for the completion of 90% of the reaction.

21

Calculate the concentration of OH^- ion in a fruit juice which contains $2 \times 10^{-3} \text{ M}$, H_3O^+ ion. Identify the nature of the solution.

22

Identify compounds A, B and C in the following sequence of reactions



23

A hydride of 2nd period alkali metal (X) on reaction with compound of Boron (Y) to give a reducing agent (Z). Identify X, Y and Z.

24

Explain the mechanism of Cannizaro reaction ?

25

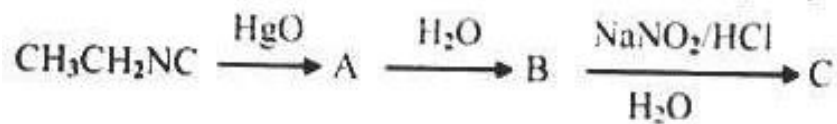
The reaction $\text{Zn(s)} + \text{Co}^{2+} \rightleftharpoons \text{Co(s)} + \text{Zn}^{2+}$ occurs in a cell. Compute the standard emf of the cell. Given that $E_{\text{Zn}^{2+}/\text{Zn}}^0 = +0.76\text{V}$ and $E_{\text{Co}^{2+}/\text{Co}}^0 = +0.28\text{V}$

26

Derive Arrhenius equation to calculate activation energy from the rate constant k_1 and k_2 at temperature T_1 and T_2 respectively.

27	Complete the reaction $P_4 + NaOH + H_2O \longrightarrow$
28	An organic compound (A) - $C_3H_8O_3$ used as a sweetening agent, which on oxidation with Fenton's reagent gives a mixture of compounds B and C. Identify A, B & C. Write Possible reactions
29	What are food preservatives?
30	An Organic compound (A) - $CNCl$ react with methyl magnesium Bromide to give compound B - (C_2H_3N) . B-upon catalytic reduction to give compound C - (C_2H_5N) . C gives carbylamine test. Identify compound A, B and C and write the reactions.
31	The equivalent conductance of M/36 solution of a Weak monobasic acid is $6 \text{ mho cm}^2 \text{ equiv}^{-1}$ and at infinite dilution is $400 \text{ mho cm}^2 \text{ equiv}^{-1}$. Calculate the dissociation constant of this acid.
32	An organic Compound C_3H_5Br (A) on treatment with Mg in dry ether gives (B) which on treatment with CO_2 followed by acidification gives (C). Identify (A), (B) & (C) and write possible equations.
33	The rate constant for a first order reaction is $1.54 \times 10^{-3} \text{ s}^{-1}$ Calculate its half life time.
34	

Identify Compounds A, B and C in the following sequence of reaction.



ALL THE BEST !

WITH REGARDS,

SS PRITHVI,
PRIT- EDUCATION.