

JEE – Advanced 17th May 2026

Paper 02

Question paper and Solution

CHEMISTRY

SECTION 1 (Maximum Marks: 12)

- This section contains **FOUR (04)** questions.
- Each question has **FOUR** options (A), (B), (C) and (D). **ONLY ONE** of these four options is the correct answer.
- For each question, choose the option corresponding to the correct answer.
- Answer to each question will be equated **according to the following marking scheme**:
 Full Marks : +3 If **ONLY** the correct option is chosen;
 Zero Marks : 0 if none of the options is chosen (i.e. the question is unanswered);
 Negative Marks : –1 In all other cases.

SECTION 2 (Maximum Marks: 20)

- This section contains **FIVE (05)** questions.
- Each question has **FOUR** options (A), (B), (C) and (D). **ONE OR MORE THAN ONE** of these four option(s) is (are) correct answer(s).
- For each question, choose the option(s) corresponding to (all) the correct answer(s).
- Answer to each question will be equated **according to the following marking scheme**:
 Full Marks : +4 **ONLY** if (all) the correct option(s) is(are) chosen;
 Partial Marks : +3 If all the four options are correct but **ONLY** three options are chosen;
 Partial Marks : +2 If three or more options are correct but **ONLY** two options are chosen, both of which are correct;
 Partial Marks : +1 If two or more options are correct but **ONLY** one option is chosen and it is a correct option;
 Zero Marks : 0 if none of the options is chosen (i.e. the question is unanswered);
 Negative Marks : –1 In all other cases.
- For example, in a question, if (A), (B) and (D) are the **ONLY** three options corresponding to correct answers, then
 choosing **ONLY** (A), (B) and (D) will get +4 marks;
 choosing **ONLY** (A) and (B) will get +2 marks;
 choosing **ONLY** (A) and (D) will get +2 marks;
 choosing **ONLY** (B) and (D) will get +2 marks;
 choosing **ONLY** (A) will get +1 mark;
 choosing **ONLY** (B) will get +1 mark;
 choosing **ONLY** (D) will get +1 mark;
 choosing no option (i.e. the question is unanswered) will get 0 marks; and
 choosing any other combination of options will get –1 marks.

SECTION 3 (Maximum Marks: 20)

- This section contains **FIVE (05)** questions.
- The answer to each question is a **NUMERICAL VALUE**.
- For each question, enter the correct numerical value corresponding to the answer in the designated place using the mouse and the on-screen virtual numeric keypad.
- If the numerical value has more than two decimal places, **truncate/round-off** the value to **TWO** decimal places.
- Answer to each question will be equated **according to the following marking scheme:**
 Full Marks : +4 If **ONLY** the correct numerical value is entered in the designated place;
 Zero Marks : 0 In all other cases.

SECTION 4 (Maximum Marks: 8)

- This section contains **TWO (02)** question stems.
- This section contains **TWO (02)** questions corresponding to each question stem.
- The answer to each question is a **NUMERICAL VALUE**.
- For each question, enter the correct numerical value corresponding to the answer in the designated place using the mouse and the on-screen virtual numeric keypad.
- If the numerical value has more than two decimal places, truncate/round-off the value to **TWO** decimal places.
- Answer to each question will be equated **according to the following marking scheme:**
 Full Marks : +2 If **ONLY** the correct numerical value is entered in the designated place;
 Zero Marks : 0 In all other cases.

Section 1**Multiple choice questions with one correct alternative**

1. At 300 K, the molar conductivities of the aqueous solutions of three salts at two different concentrations are given below:

Salt	Concentration (M)	Molar conductivity (S cm ² mol ⁻¹)
NaNO ₃	0.01	111
	0.04	101
NaCl	0.01	117
	0.04	107
AgNO ₃	0.01	125
	0.04	116

The conductivity of a saturated aqueous solution of AgCl is 1.40×10^{-6} S cm⁻¹ at 300 K. If the solubility of AgCl in water at 300 K is X mol L⁻¹, then log₁₀(X⁻¹) is
 (Assume that AgCl dissolved in water ionizes completely and that the molar conductivity of saturated AgCl solution is equal to its limiting molar conductivity.)

- (A) 3 (B) 4 (C) 5 (D) 6

Ans (C)

$$\Lambda_m = A\sqrt{C} + \Lambda_m^\infty \quad \text{on solved equation}$$

$$\text{For NaNO}_3; 111 = A\sqrt{0.01} + \Lambda_m^\infty$$

$$111 = A(0.1) + \Lambda_m^\infty \quad \dots(1)$$

$$101 = A(2 \times 10^{-1}) + \Lambda_m^\infty \quad \dots(2)$$

2 × equation (1) – equation - (2)

$$222 = 2 \times 10^{-1} A + 2\Lambda_m^\infty$$

$$\text{(-)} \frac{101 = 2 \times 10^{-1} A + \Lambda_m^\infty}{121 = \Lambda_m^\infty \text{ for NaNO}_3}$$

For NaCl: $\Lambda_m^\infty = 117 \times 2 - 107$

For AgNO₃: $\Lambda_m^\infty = 125 \times 2 - 116$

$$= 134$$

$$(\Lambda_m^\infty)_{\text{AgCl}} = (\Lambda_m^\infty)_{\text{AgNO}_3} + (\Lambda_m^\infty)_{\text{NaCl}} - (\Lambda_m^\infty)_{\text{NaNO}_3}$$

$$= 134 + 127 - 121$$

$$= 140$$

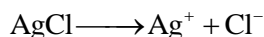
As for AgCl % $\alpha = 100\%$ given

$$\Lambda_m^\infty = \frac{K \times 1000}{C}$$

$$C = \frac{K \times 1000}{\Lambda_m^\infty} = \frac{1.4 \times 10^{-6} \times 10^3}{140}$$

$$C = 10^{-5}$$

AgCl is 100 % ionise



$$t = 0 \quad C = 10^{-5} \quad - \quad -$$

$$t = t \quad \quad \quad 10^{-5} \quad 10^{-5}$$

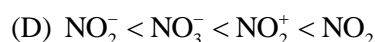
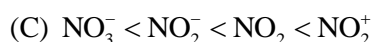
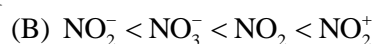
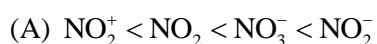
Given solubility (X) = $10^{-5} = s$

Then $\log X^{-1} = \log \left\{ (10^{-5})^{-1} \right\}$

$$= \log 10^{+5}$$

$$= 5$$

2. The correct order of ONO bond angle in the given species is



Ans (B)

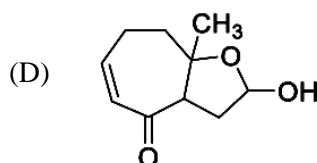
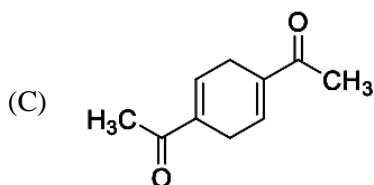
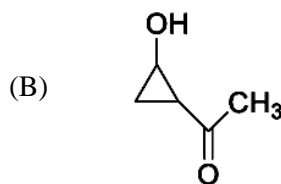
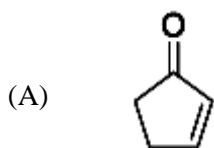
$\text{NO}_2^+ \Rightarrow sp$ hybridisation \Rightarrow linear $\Rightarrow 180^\circ$

$\text{NO}_2 \Rightarrow sp^2$ hybridisation \Rightarrow bond angle = 134°

$\text{NO}_3^- \Rightarrow$ trigonal bipyramidal \Rightarrow bond angle = 120°

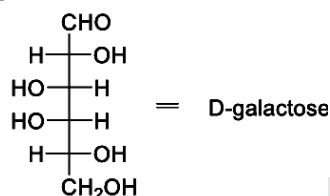
$\text{NO}_2^- \Rightarrow sp^2$ hybridisation \Rightarrow but due to presence of lone pair bond angle decrease to 115°

3. Natural rubber on complete ozonolysis ($O_3/Zn-H_2O$) gives compound **X** as the major product. **X** gives positive iodoform and Tollen's tests. **X** on heating with aqueous NaOH gives **Y** as the major product. **Y** is

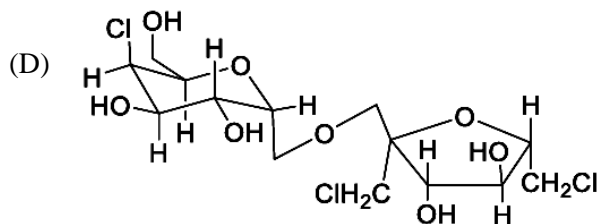
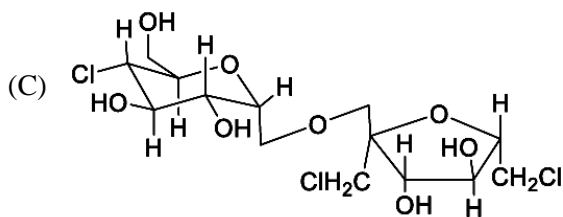
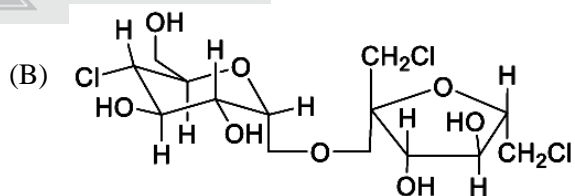
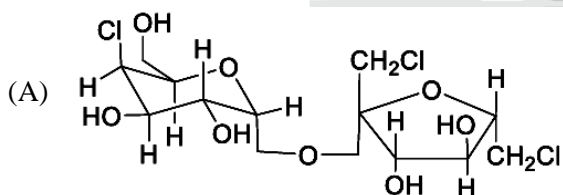


Ans (A)

4. A known artificial sweetener **X** is composed of 4-chloro-4-deoxy- α -D-galactose and 1,6-dichloro-1,6-dideoxy- β -D-fructose joined by a glycosidic linkage. Structure of D-galactose is given below:



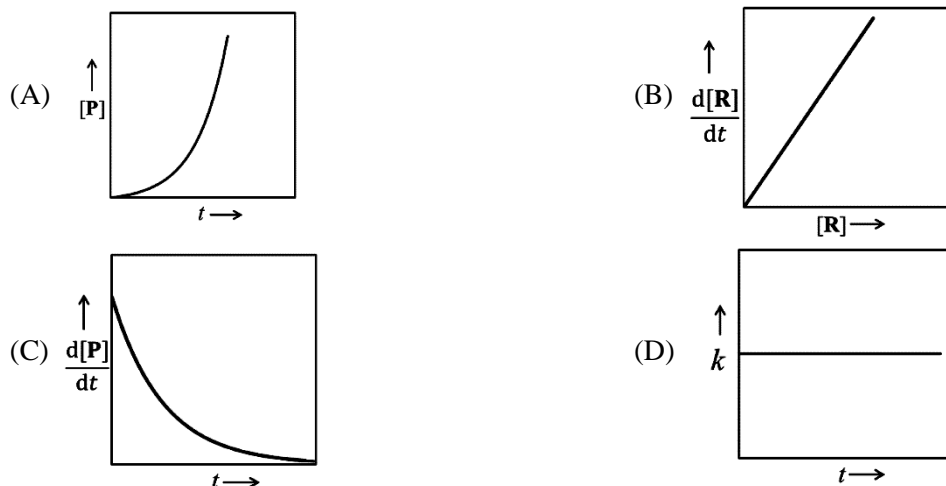
The correct structure of **X** is



Ans (A)

Section 2**Multiple choice questions with one or more than one correct alternative/s**

5. For a first-order reaction $\mathbf{R} \rightarrow \mathbf{P}$ at a given temperature, k is the rate constant. For this reaction, at the given temperature, the concentrations of \mathbf{R} and \mathbf{P} at a time t are $[\mathbf{R}]$ and $[\mathbf{P}]$, respectively. The correct graphical representation(s) for this reaction is(are)



Ans (C) and (D)

(A) $[p]$ Vs t

$$[p] = [\mathbf{R}]_0 (1 - e^{-kt}) \text{ (only increases)}$$

not increasing exponentially

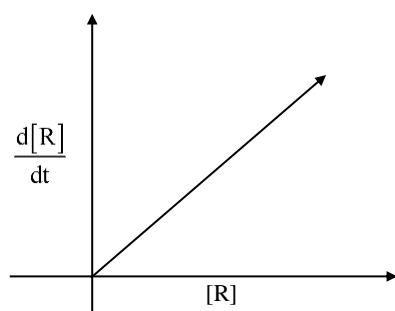
incorrect $-\frac{d[\mathbf{R}]}{dt} = k[\mathbf{R}]$

$$\frac{d[\mathbf{p}]}{dt} = k[\mathbf{R}]$$

(B) $\frac{-d[\mathbf{R}]}{dt}$ vs $[\mathbf{R}]$

$$\text{Rate} = k[\mathbf{R}]$$

directly proportional, hence a negative slope is expected therefore given graph is incorrect



(C) $\frac{dp}{dt}$ vs t

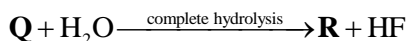
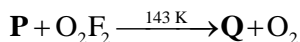
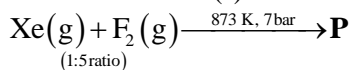
$$\frac{d[\mathbf{p}]}{dt} = k[\mathbf{R}]$$

$$= k[\mathbf{R}]_0 e^{-kt}$$

It should decrease exponentially correct

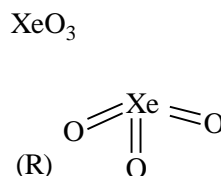
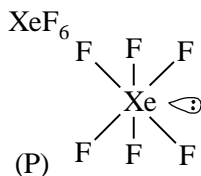
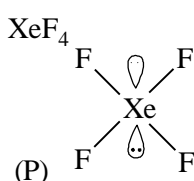
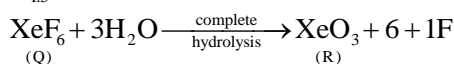
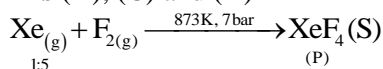
(D) k vs t constant

6. Correct statement(s) about the compounds **P**, **Q** and **R** is(are)



- (A) **P** has two lone pairs of electrons on the central atom.
 (B) **Q** has a perfect octahedral geometry.
 (C) **Q** can act as a fluorinating agent.
 (D) The molecular structure of **R** is trigonal pyramidal.

Ans (A), (C) and (D)



square planar

2lp

$sp^3 d$

Distorted
octahedral
 $sp^3 d^3 1lp$



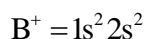
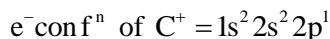
Pyramidal
 $sp^3 1lp$

7. The correct statement(s) regarding the periodic properties of elements is(are)
- (A) Second ionization enthalpy of carbon atom is less than that of boron atom.
 (B) Increasing order of ionic radii: $\text{Al}^{3+} < \text{Mg}^{2+} < \text{Na}^+$
 (C) Under identical conditions, in solid state, the density of potassium metal is more than density of sodium metal.
 (D) The H-H bond is weaker than F-F bond.

Ans (A) and (B)

Correct statements among the following are

- (A) IE_2 of C $<$ IE_2 of B (correct)



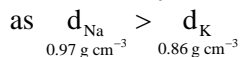
B^+ has completely filled 2s

- (B) Ionic radius increasing order



Correct as for iso electronic ions, +ve charge \uparrow , size \downarrow

- (C) Given density of Na $<$ density of K under identical condition in solid state (wrong)



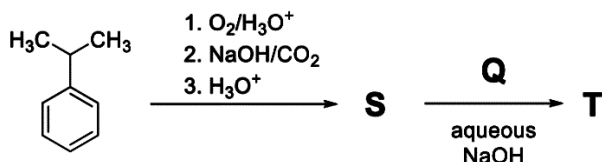
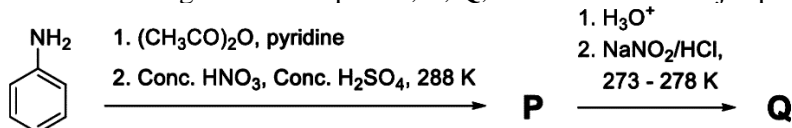
(D) Given H–H bond weaker than F–F bond (wrong)

Because H–H bond stronger than F–F due to lp-lp repulsion in F–F bond.

BE of H–H > F–F

436 kJ/mol 155 kJ/mol

8. In the following reaction sequence, **P**, **Q**, **S** and **T** are the major products.



The correct statement(s) about **P**, **Q**, **S** and **T** is(are)

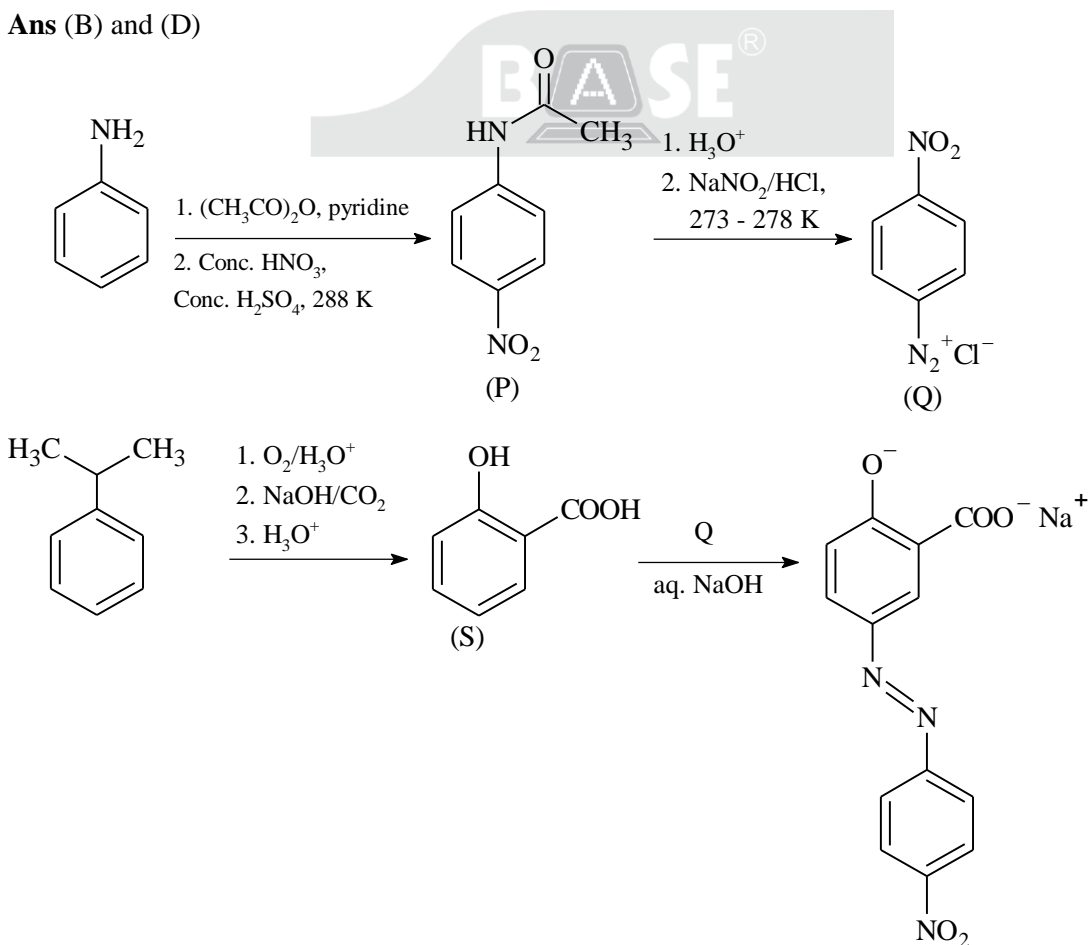
(A) **Q** on treatment with ethanol generates an aromatic aldehyde.

(B) **S** gives positive phthalein dye test.

(C) **P** is a dinitro compound.

(D) **T** is a coloured compound.

Ans (B) and (D)

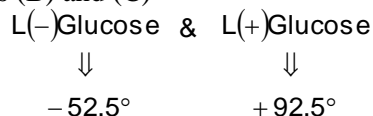


9. The correct statement(s) regarding sugars is(are)

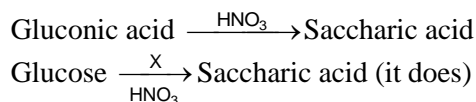
Given: Specific rotations of L(-)-glucose and L(+)-fructose are -52.5° and $+92.5^\circ$, respectively.

- (A) On treatment with HNO_3 , gluconic acid is oxidized to saccharic acid, whereas glucose is not oxidized to saccharic acid.
- (B) Fructose gives a positive Fehling's test because it isomerises to glucose and another aldohexose in the presence of Fehling's reagent.
- (C) Invert sugar is an equimolar mixture of D-glucose and D-fructose formed after hydrolysis of the corresponding disaccharide.
- (D) Specific rotation of invert sugar is -40° .

Ans (B) and (C)



(A) False



(B) True

Fructose \longrightarrow (+)ve Fehling because
Isomerise to glucose + aldohexose (Manose)

(C) True

(D) False

-20° (not -40°)

(+) glucose $\Rightarrow 52^\circ.5$

(-) fructose $\Rightarrow -92^\circ.5$

Sucrose $\Rightarrow +66.5$

$$\Rightarrow \left(\frac{-52 + (+92^\circ)}{2} \right) = \frac{40}{2} = 20$$

Section 3

Numerical problems (truncated/round off to two decimal places)

10. X^{a+} and Y^{b+} are hydrogen-like species. The wavelength of light absorbed during the transition between the states with principal quantum numbers $n = 1$ and $n = 2$ of X^{a+} is λ . The wavelength of light absorbed during the transition between the states with principal quantum numbers $n = 2$ and $n = 4$ of Y^{b+} is 9λ . The lowest possible value of $(a + b)$ is _____.

Ans 3.00

$$\text{X}^{a+} \quad \frac{1}{\lambda} = R_H Z^2 \left[\frac{1}{1^2} - \frac{1}{2^2} \right]$$

$$\lambda = \frac{4}{3} \times \frac{1}{R_H Z_X^2}$$

$$9 = \frac{16/3}{4/3} \times \frac{Z_X^2}{Z_Y^2}$$

$$\text{Y}^{b+} \quad \frac{1}{9\lambda} = R_H Z^2 \left[\frac{1}{2^2} - \frac{1}{4^2} \right]$$

$$9\lambda = \frac{16}{3} \times \frac{1}{R_H Z_Y^2}$$

$$\frac{Z_x^2}{Z_y^2} = \frac{9}{4} \Rightarrow \frac{Z_x}{Z_y} = \frac{3}{2}$$

11. At a given temperature, 0.45 g of acetic acid in 50 mL of water is shaken with 1.0 g of charcoal and the pH of the resulting solution is 3.0. Assume, the adsorption of acetic acid from the aqueous solution by charcoal follows Freundlich isotherm,

$$\frac{x}{m} = kC^{\frac{1}{n}}$$

If the plot of $\log_{10}(x/m)$ against $\log_{10}C$ gives a straight line with slope 1, the value of k in L mol^{-1} is _____.

Given: The molar mass of acetic acid is 60 g mol^{-1} .

The acid dissociation constant of acetic acid is 1.0×10^{-5} at the given temperature.

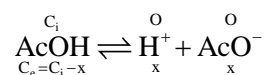
x is the mass (in grams) of acetic acid adsorbed.

m is the mass (in grams) of charcoal.

C is the equilibrium concentration of acetic acid in the solution after the adsorption is complete.

k and n are constants for acetic acid-charcoal system at the given temperature.

Ans 1.50



$$K_a = \frac{x \times x}{C_e} \Rightarrow C_e = \frac{x \times x}{K_a} = \frac{10^{-3} \times 10^{-3}}{1.0 \times 10^{-5}} \quad \because \text{pH} = 3 \Rightarrow [\text{H}^+] = 10^{-3}$$

$$C_e = 10^{-1} \text{ mol L}^{-1}$$

\Rightarrow Grams of acetic in solution at equilibrium is

$$10^{-1} \frac{\text{mol}}{\text{L}} \times 0.05 \text{ L} \times 60 \frac{\text{g}}{\text{mol}} = 0.3 \text{ g}$$

\Rightarrow Gram of acetic adsorbed, $x = 0.45 \text{ g} - 0.3 \text{ g} = 0.15 \text{ g}$

$$\Rightarrow \frac{x}{m} = \frac{0.15 \text{ g}}{1 \text{ g}} = 0.15$$

From Freundlich isotherm $\frac{x}{m} = kC^{\frac{1}{n}}$

$$\Rightarrow \log \frac{x}{m} = \log k + \frac{1}{n} \log C$$

$$\Rightarrow \log(0.15) = \log k + (1)(\log 10^{-1}) \quad \because \text{given slope, } \frac{1}{n} = 1$$

$$\Rightarrow \log 0.15 - \log 10^{-1} = \log k$$

$$\Rightarrow \log \left(\frac{0.15}{10^{-1}} \right) = \log k$$

$$\Rightarrow \log(1.5) = \log k$$

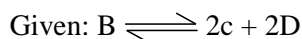
$$\Rightarrow k = 1.5$$

12. In a solvent **S**, a compound **B** is partially dissociated into **C** and **D** as given below:



B, **C** and **D** are non-volatile in nature. The molar mass of **B** is 10 times the molar mass of **S**. The standard boiling point and the standard enthalpy of vaporization of **S** are 400 K and $10 R \text{ J mol}^{-1}$, respectively (R is the gas constant in $\text{J K}^{-1} \text{ mol}^{-1}$). A solution of **B** in **S** with an initial concentration of **B** as 0.25% (mass/mass) has a boiling point of 408 K at 1 bar pressure. In this solution, the mole percent of **B** that has been dissociated is _____.

Ans 33.16 or 33.17 or 33.33



$$M_{\mathbf{B}} = 10 \times M_{\mathbf{S}}$$

$$T^0 = 400 \text{ K}$$

$$\Delta_{\text{v}}H = 10 R \text{ J. mol}^{-1}$$

$$n = 4$$

$$T_{\text{solution}} = 408 \text{ K.}$$

$$\Delta T_{\text{b}} = 408 - 400 = 8 \text{ K}$$

$$K_{\text{b}} = \frac{RT_0^2 \times M_{\mathbf{S}}}{1000 \times \Delta_{\text{v}}H} = \frac{R \times 400\text{K} \times (M_{\mathbf{B}}/10)}{1000 \times 10R} = 1.6M_{\mathbf{B}}$$

$$\Delta T_{\text{b}} = iK_{\text{b}}m$$

$$\Rightarrow 8 = i \times (1.6 M_{\mathbf{B}}) \times \frac{(0.25\text{g}/M_{\mathbf{B}})}{99.75 \times 10^{-3} \text{ kg}}$$

$$\Rightarrow i = \frac{8 \times 99.75 \times 10^{-3}}{1.6 \times 0.25} = 1.995$$

$$1 + (n - 1)\alpha = 1.995$$

$$1 + (4 - 1)\alpha = 1.995$$

$$3\alpha = 0.995$$

$$\alpha = 0.33167$$

$$\% \text{ of } \alpha = 33.16 \text{ or } 33.17 \quad \% \text{ of } \alpha = 33.33$$

$$\therefore i = 1 + (n - 1)\alpha$$

If Assuming, dilute solution

$$i = \frac{8 \times 100 \times 10^{-3}}{1.0 \times 0.25} = 2$$

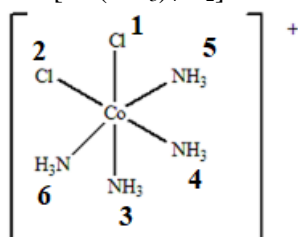
$$1 + 3\alpha = 2$$

$$3\alpha = 1$$

$$\alpha = \frac{1}{3}$$

13. Consider that the coordinating atoms of the ligands in $\text{cis-}[\text{Co}(\text{NH}_3)_4\text{Cl}_2]\text{Cl}$ and $\text{mer-}[\text{Co}(\text{NH}_3)_3\text{Cl}_3]$ octahedral complexes are at the vertices of an octahedron. The sum of total number of the triangular faces in both the complexes having one N atom and two Cl atoms at their corners is _____.

Ans 6.00

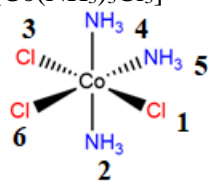


cis

Strategic Academic Alliance with

Triangular face having 2Cl and 1N is (1, 2, 3) and (1, 2, 4)

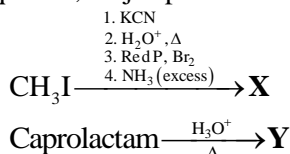
Mer – [Co(NH₃)₃Cl₃]



meridional isomer

Triangles having 2Cl and 1N is (1, 2, 3); (1, 3,4); (1, 3, 5); (1, 3, 6)

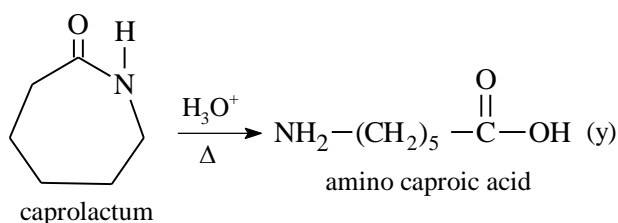
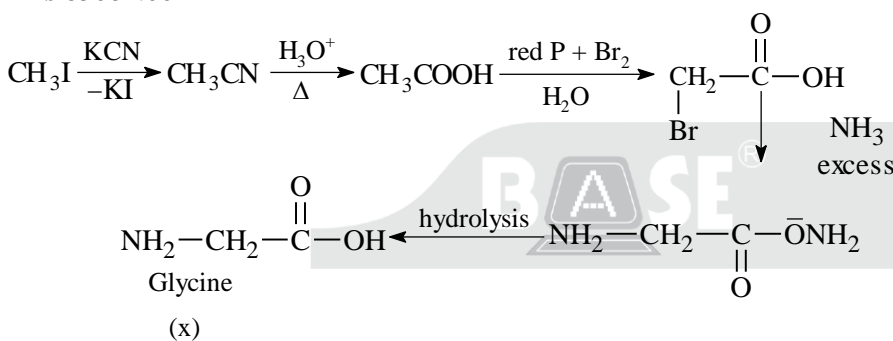
14. In the following reaction sequence, major products **X** and **Y** are acyclic monomers.



500 mol of **X** completely reacts with 500 mol of **Y** to give 1 mol of a single biodegradable acyclic copolymer **Z** as the only product. The amount of **Z** formed in grams is _____.

Given: Atomic mass (in amu): H : 1, C : 12, N : 14, O : 16, Br : 80

Ans 85081.00



Step 3: Polymer formation

500 mol X + 500 mol Y react to form 1 mol of polymer.

Total monomer units = 500 + 500 = 1000

Since a single polymer chain is formed, number of condensation reactions:

= 1000 – 1 = 999

Each condensation eliminates 1 molecule of H₂O.

Step 4: Molar masses

For X (glycine):

Formula = C₂H₅NO₂

Molar mass = 75 g mol⁻¹

For Y (6-aminohexanoic acid):

Molar mass = 131 g mol^{-1}

Total mass of monomers = $500 \times 75 + 500 \times 131 = 37500 + 65500 = 103000 \text{ g}$

Mass of water eliminated = $999 \times 18 = 17982 \text{ g}$

Mass of polymer formed: = $103000 - 17982 = 85018 \text{ g}$

Section 4

Stem - 1

Question Stem for Question Nos. 15 and 16 (truncate/round off to two decimal places)

Two volatile liquids **A** and **B** form an ideal solution. Consider a 5 molal solution of **B** in **A** inside a closed container having a total vapour pressure of 100 mm Hg at 300 K. The vapour pressure of pure **A** at 300K is 105 mm Hg. Assume that **A** and **B** behave as ideal gases in the vapour phase.

Given:

The gas constant $R = 0.08 \text{ L atm K}^{-1} \text{ mol}^{-1}$

Molar mass of **A** is 50 g mol^{-1}

Molar mass of **B** is 57 g mol^{-1}

Density of liquid **B** at 300 K is 0.5 g/mL

$1 \text{ atm} = 760 \text{ mm Hg}$

15. At 300 K, the ratio of the molar volume of pure **B** in vapour phase to its molar volume in liquid phase is _____.

Ans 2000.00

For pure **B** in vapour phase:

From Raoult's law:

$$P_B = X_B \times P_B^\circ$$

$$16 = 0.2 \times P_B^\circ$$

$$P_B^\circ = 80 \text{ mm Hg}$$

Convert to atm:

$$P = 80/760 = 0.1053 \text{ atm}$$

Using ideal gas equation for molar volume:

$$V_m = RT/P = (0.08 \times 300)/0.1053 = 24/0.1053$$

$$\approx 228 \text{ L mol}^{-1}$$

For liquid **B**:

$$\text{Density} = 0.5 \text{ g mL}^{-1}$$

$$\text{Molar mass} = 57 \text{ g mol}^{-1}$$

Molar volume = Molar mass / Density

$$V_{\text{liq}} = 57/0.5 = 114 \text{ mL mol}^{-1} = 0.114 \text{ L mol}^{-1}$$

$$\text{Ratio} = V_{\text{vapour}} / V_{\text{liquid}} = 228 / 0.114 = 2000$$

16. The mole fraction of **B** in vapour phase which is in equilibrium with this solution is _____.

Ans 0.16

5 moles \rightarrow 5 moles of **B** in 1000 g of **A**

$$n_A = \frac{1000}{50} = 20$$

$$\chi_B = \frac{5}{25} = \frac{1}{5} \chi_A = \frac{4}{5}$$

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$$p_t = \chi_A p_A^0 + \chi_B p_B^0$$

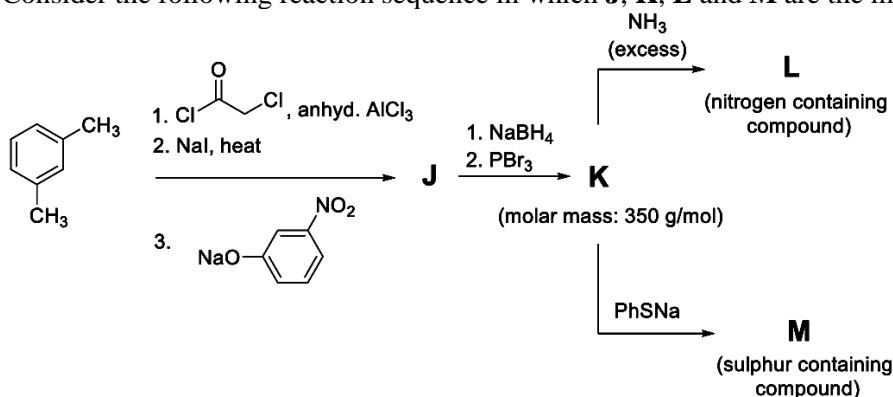
$$100 = \frac{4}{5} \times 105 + \frac{1}{5} \times p_B^0$$

$$p_B^0 = 80 \text{ mmHg}$$

$$y_B = \frac{p_B}{p_T} = \frac{\frac{1}{5} \times 80}{100} = 0.16$$

Stem - 2**Question Stem for Question Nos. 17 and 18 (truncate/round off to two decimal places)**

Consider the following reaction sequence in which **J**, **K**, **L** and **M** are the major products.

**Given:**

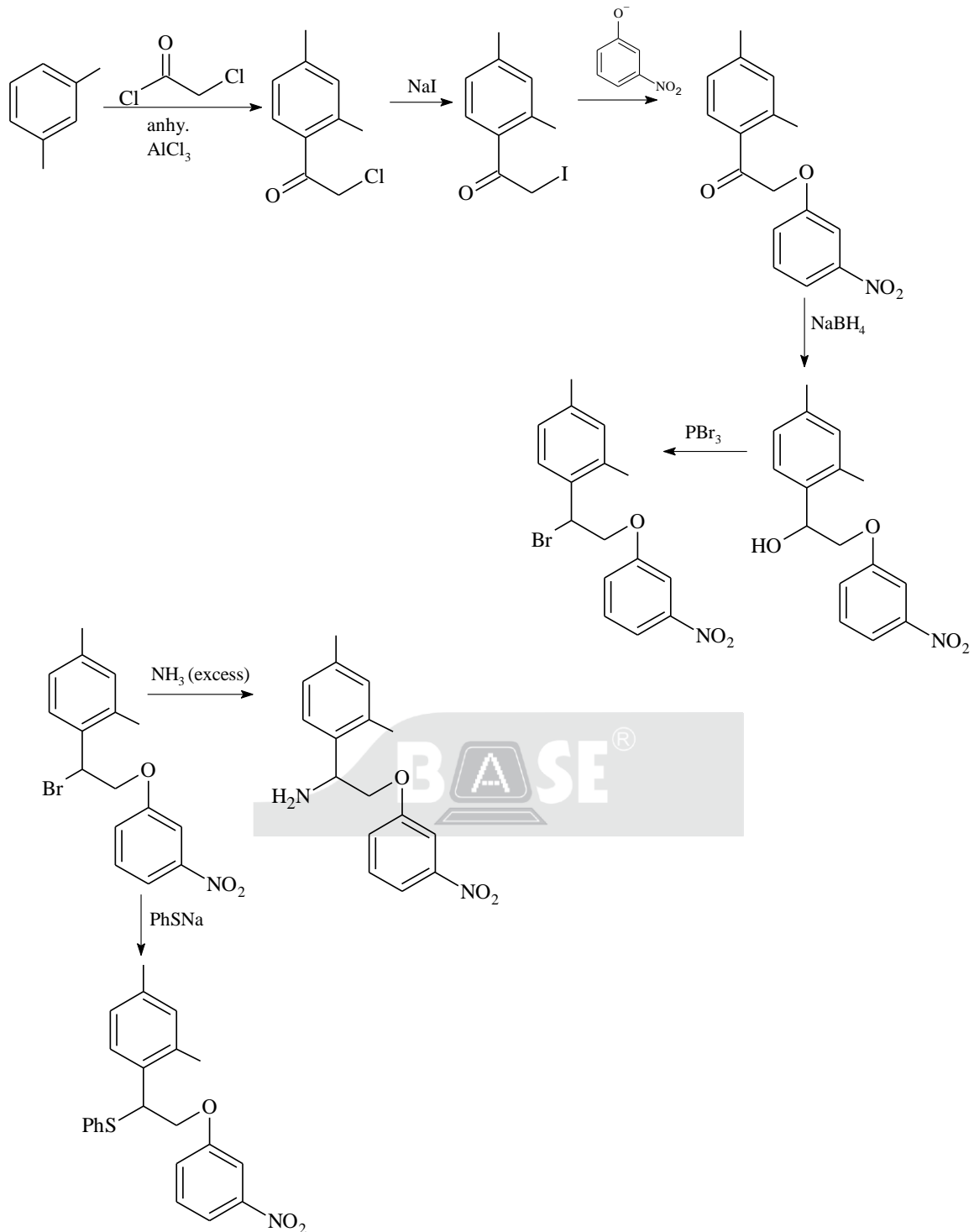
Atomic mass (in amu): H : 1, C : 12, N : 14, O : 16, S : 32, Br : 80, Ba : 137

17. The volume of 1 M aqueous H_2SO_4 required to completely neutralize the ammonia evolved from 5.72 g of **L** in Kjeldahl's method of nitrogen estimation is _____ mL.

Ans 10.00

18. In sulphur estimation by Carius method, the amount of BaSO_4 formed from 3.79 g of **M** is _____ g.

Ans 2.33

**Solution for Question No. 17**

mol. wt. L = 286

1 mole of L \rightarrow 1 mole of N-atom0.02 moles \rightarrow 0.02 moles of N-atom = 0.02 mole of NH_3 $2\text{NH}_3 + \text{H}_2\text{SO}_4 \rightarrow (\text{NH}_4)_2\text{SO}_4$

2 moles 1 moles

0.02 mole [0.01 mole]

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$$n_{\text{moles}} = M \times V$$

$$\therefore V = 0.01 \text{ V}$$

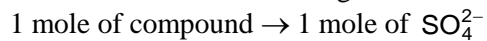
$$V = 10 \text{ mL}$$

Solution for Question No. 18

$$\text{Mol. wt of M} = 379 \text{ g mol}^{-1}$$

$$n_{\text{moles}} = 10^{-2}$$

$$\text{mol. wt of BaSO}_4 = 233.39 \text{ g mol}^{-1}$$



$$1 \text{ mole of BaSO}_4$$

$$\therefore 233.39 \times 10^{-2}$$

$$\therefore W_{\text{BaSO}_4} = 2.33 \text{ g.}$$

* * *

