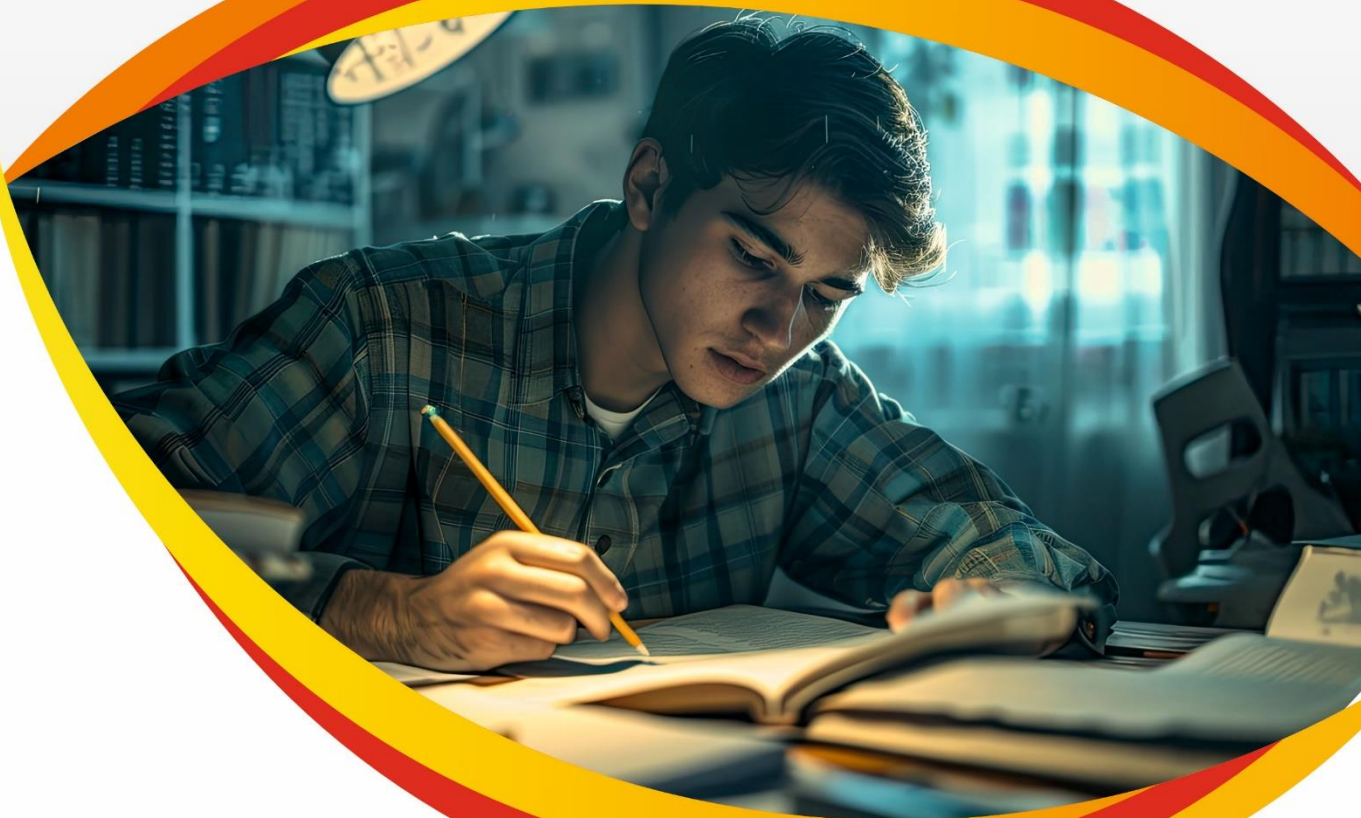


मोशन है, तो भरोसा है

**MOTION**  
18 YEARS OF LEGACY



**JEE ADVANCED 2025**

# **QUESTION PAPER WITH SOLUTIONS**

**CHEMISTRY (PAPER-1)**

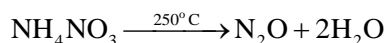
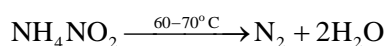


## SECTION 1 (Maximum Marks: 12)

- 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 evaluated 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.

1. The heating of  $\text{NH}_4\text{NO}_2$  at  $60-70^\circ\text{C}$  and  $\text{NH}_4\text{NO}_3$  at  $200-250^\circ\text{C}$  is associated with the formation of nitrogen containing compounds **X** and **Y**, respectively. **X** and **Y**, respectively, are  
 (A)  $\text{N}_2$  and  $\text{N}_2\text{O}$  (B)  $\text{NH}_3$  and  $\text{NO}_2$  (C)  $\text{NO}$  and  $\text{N}_2\text{O}$  (D)  $\text{N}_2$  and  $\text{NH}_3$

Sol. A



2. The correct order of the wavelength maxima of the absorption band in the ultraviolet-visible region for the given complexes is

- (A)  $[\text{Co}(\text{CN})_6]^{3-} < [\text{Co}(\text{NH}_3)_6]^{3+} < [\text{Co}(\text{NH}_3)_5(\text{H}_2\text{O})]^{3+} < [\text{Co}(\text{NH}_3)_5(\text{Cl})]^{2+}$   
 (B)  $[\text{Co}(\text{NH}_3)_5(\text{Cl})]^{2+} < [\text{Co}(\text{NH}_3)_5(\text{H}_2\text{O})]^{3+} < [\text{Co}(\text{NH}_3)_6]^{3+} < [\text{Co}(\text{CN})_6]^{3-}$   
 (C)  $[\text{Co}(\text{CN})_6]^{3-} < [\text{Co}(\text{NH}_3)_5(\text{Cl})]^{2+} < [\text{Co}(\text{NH}_3)_5(\text{H}_2\text{O})]^{3+} < [\text{Co}(\text{NH}_3)_6]^{3+}$   
 (D)  $[\text{Co}(\text{NH}_3)_6]^{3+} < [\text{Co}(\text{CN})_6]^{3-} < [\text{Co}(\text{NH}_3)_5(\text{Cl})]^{2+} < [\text{Co}(\text{NH}_3)_5(\text{H}_2\text{O})]^{3+}$

Sol. A

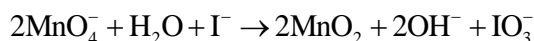
WFL containing complex absorbs higher wave length



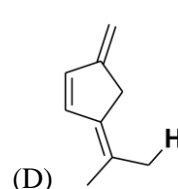
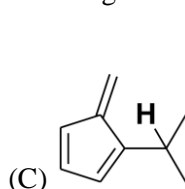
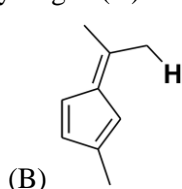
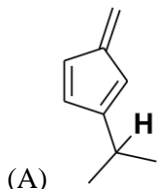
3. One of the products formed from the reaction of permanganate ion with iodide ion in neutral aqueous medium is

- (A)  $\text{I}_2$  (B)  $\text{IO}_3^-$  (C)  $\text{IO}_4^-$  (D)  $\text{IO}_2^-$

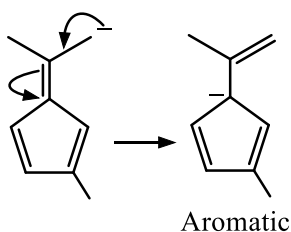
Sol. B

In neutral (or) faintly alkaline (NCERT 12<sup>th</sup> page Number 108)

4. Consider the depicted hydrogen (H) in the hydrocarbons given below. The most acidic hydrogen (H) is



Sol. B

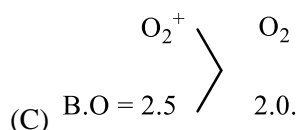
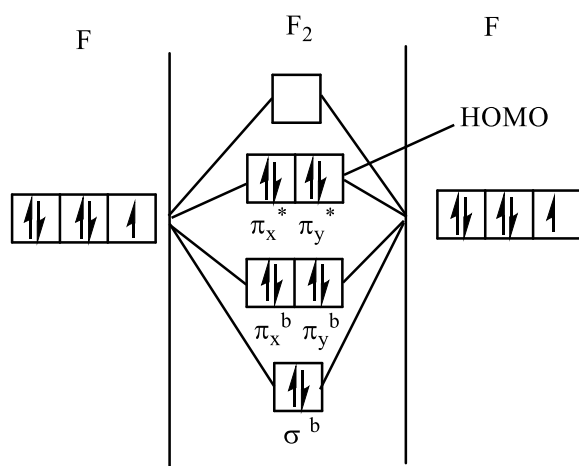


**SECTION 2 (Maximum Marks: 12)**

- This section contains THREE (03) 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 evaluated 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 : -2 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 -2 marks.

5. Regarding the molecular orbital (MO) energy levels for homonuclear diatomic molecules, the INCORRECT statement(s) is(are)
- (A) Bond order of  $\text{Ne}_2$  is zero.
- (B) The highest occupied molecular orbital (HOMO) of  $\text{F}_2$  is  $\sigma$ -type.
- (C) Bond energy of  $\text{O}_2^+$  is smaller than the bond energy of  $\text{O}_2$ .
- (D) Bond length of  $\text{Li}_2$  is larger than the bond length of  $\text{B}_2$ .

**Sol. B & C**

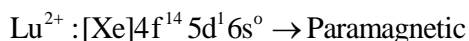
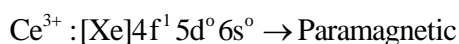
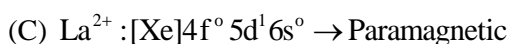
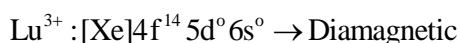
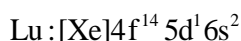
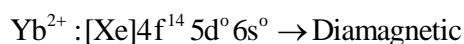
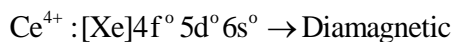
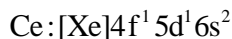
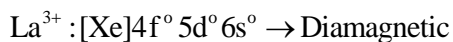


Bond order  $\propto$  Bond energy

Hence B & C are wrong

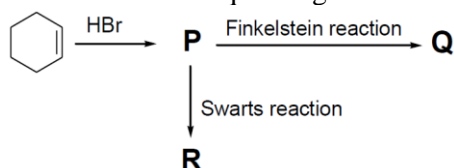
6. The pair(s) of diamagnetic ions is(are)  
 (A)  $\text{La}^{3+}$ ,  $\text{Ce}^{4+}$  (B)  $\text{Yb}^{2+}$ ,  $\text{Lu}^{3+}$  (C)  $\text{La}^{2+}$ ,  $\text{Ce}^{3+}$  (D)  $\text{Yb}^{3+}$ ,  $\text{Lu}^{2+}$

Sol. **A & B**



Hence answer is A & B

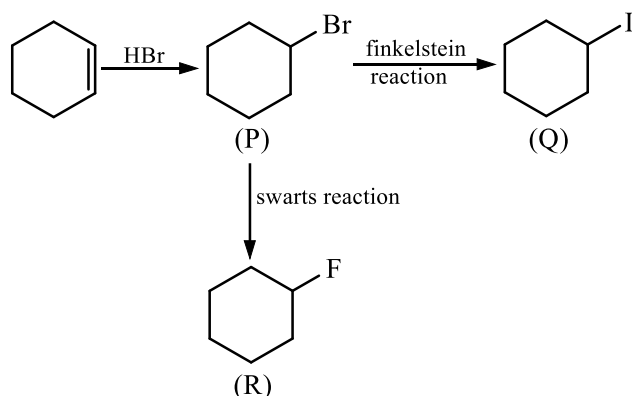
7. For the reaction sequence given below, the correct statement(s) is(are)



(In the options, X is any atom other than carbon and hydrogen, and it is different in P, Q and R)

- (A) C-X bond length in P, Q and R follows the order  $\text{Q} > \text{R} > \text{P}$ .  
 (B) C-X bond enthalpy in P, Q and R follows the order  $\text{R} > \text{P} > \text{Q}$ .  
 (C) Relative reactivity toward  $\text{S}_{\text{N}}2$  reaction in P, Q and R follows the order  $\text{P} > \text{R} > \text{Q}$ .  
 (D)  $\text{pK}_{\text{a}}$  value of the conjugate acids of the leaving groups in P, Q and R follows the order  $\text{R} > \text{Q} > \text{P}$ .

Sol. **B**



(A) C-X Bond length  $C-F < C-Br < C-I$

R < P < Q

(B) Bond enthalpy  $C-F > C-Br > C-I$

(R) (P) (Q)

(C) Reactivity order toward  $SN_2 \rightarrow C-F < C-Br < C-I$

(R) (P) (Q)

(D)  $P_{K_a}$  order

HF HBr HI

3.2 -9 -10

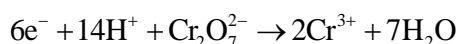
### SECTION 3 (Maximum Marks: 24)

- This section contains SIX (06) questions.
- The answer to each question is a NUMERICAL VALUE.
- For each question, enter the correct numerical value of the answer using the mouse and the onscreen virtual numeric keypad in the place designated to enter the answer.
- 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 evaluated 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.

8. In an electrochemical cell, dichromate ions in aqueous acidic medium are reduced to  $Cr^{3+}$ . The current (in amperes) that flows through the cell for 48.25 minutes to produce 1 mole of  $Cr^{3+}$  is \_\_\_\_\_.  
Use: 1 Faraday =  $96500 \text{ C mol}^{-1}$

Sol. 100

$t = 48.25 \text{ min.}$



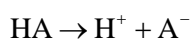
For 1 mole  $Cr^{3+} = 3 \text{ mole } e^-$

= 3 F charge required

$$\text{Current} = \frac{q}{t} = \frac{3 \times 96500}{48.25 \times 60} = 100A$$

9. At  $25^\circ C$ , the concentration of  $H^+$  ions in  $1.00 \times 10^{-3} \text{ M}$  aqueous solution of a weak monobasic acid having acid dissociation constant ( $K_a$ ) of  $4.00 \times 10^{-11}$  is  $X \times 10^{-7} \text{ M}$ . The value of  $X$  is \_\_\_\_\_.  
Use: Ionic product of water ( $K_w$ ) =  $1.00 \times 10^{-14}$  at  $25^\circ C$

Sol. 2.24



$$10^{-3} \quad x + y \quad x$$



$$x + y \quad y$$

$$\frac{(x+y)(x)}{10^{-3}} = 4 \times 10^{-11}$$



$$x(x+y) = 4 \times 10^{-14} \quad \dots(1)$$

$$y(x+y) = 10^{-14} \quad \dots(2)$$

$$(x+y)^2 = 5 \times 10^{-14}$$

$$(x+y) = \sqrt{5} \times 10^{-7}$$

$$[H^+] = 2.24 \times 10^{-7} M$$

10. Molar volume ( $V_m$ ) of a van der Waals gas can be calculated by expressing the van der Waals equation as a cubic equation with  $V_m$  as the variable. The ratio (in  $\text{mol dm}^{-3}$ ) of the coefficient of  $V_m^2$  to the coefficient of  $V_m$  for a gas having van der Waals constants  $a = 6.0 \text{ dm}^6 \text{ atm mol}^{-2}$  and  $b = 0.060 \text{ dm}^3 \text{ mol}^{-1}$  at 300 K and 300 atm is \_\_\_\_\_.

Use: Universal gas constant ( $R$ ) =  $0.082 \text{ dm}^3 \text{ atm mol}^{-1} \text{ K}^{-1}$

Sol. -7.1

$$\left(P + \frac{a}{V_m^2}\right)(V_m - b) = RT$$

$$PV_m + \frac{a}{V_m} - Pb - \frac{ab}{V_m^2} = RT$$

$$PV_m^3 + aV_m - PbV_m^2 - ab = RTV_m^2$$

$$PV_m^3 - (Pb + RT)V_m^2 + aV_m - ab = 0$$

$$V_m^3 - \left(\frac{Pb + RT}{P}\right)V_m^2 + \frac{a}{P}V_m - \frac{ab}{P} = 0$$

Ratio of coefficient of  $V_m^2$  to  $V_m$

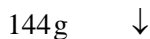
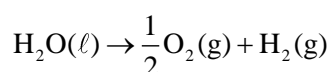
$$= -\frac{Pb + RT}{a} = -\frac{(300 \times 0.060) + (0.082 \times 300)}{6} = -\frac{18 + 24.6}{6} = -7.1$$

11. Considering ideal gas behavior, the expansion work done (in kJ) when 144 g of water is electrolyzed completely under constant pressure at 300 K is \_\_\_\_\_.

Use: Universal gas constant ( $R$ ) =  $8.3 \text{ J K}^{-1} \text{ mol}^{-1}$ ; Atomic mass (in amu): H = 1, O = 16

Sol. 29.88

$$T = 300 \text{ K}$$



$$w = -\Delta n_g RT$$

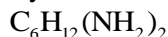
$$= -(12) RT = -(12) (8.3) (300) = -29.88 \text{ KJ}$$

12. The monomer (X) involved in the synthesis of Nylon 6,6 gives positive carbylamine test. If 10 moles of X are analyzed using Dumas method, the amount (in grams) of nitrogen gas evolved is\_\_\_\_\_.

Use: Atomic mass of N (in amu) = 14

Sol. 280

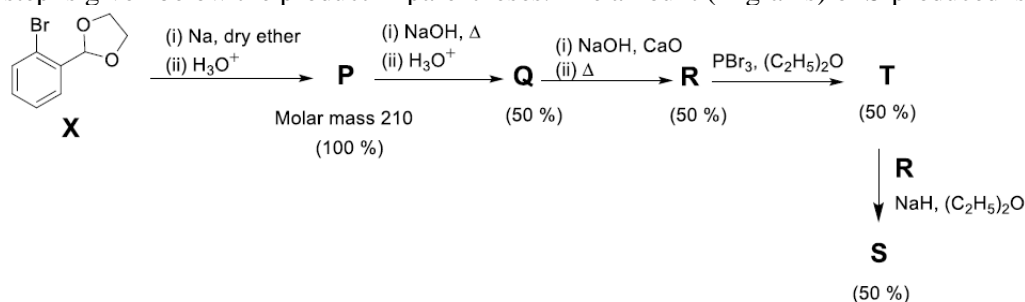
Hexamethylenediamine, which is monomer of nylon given positive carbylamines test.



Amount of nitrogen in 10 mole of monomer = 20 mol

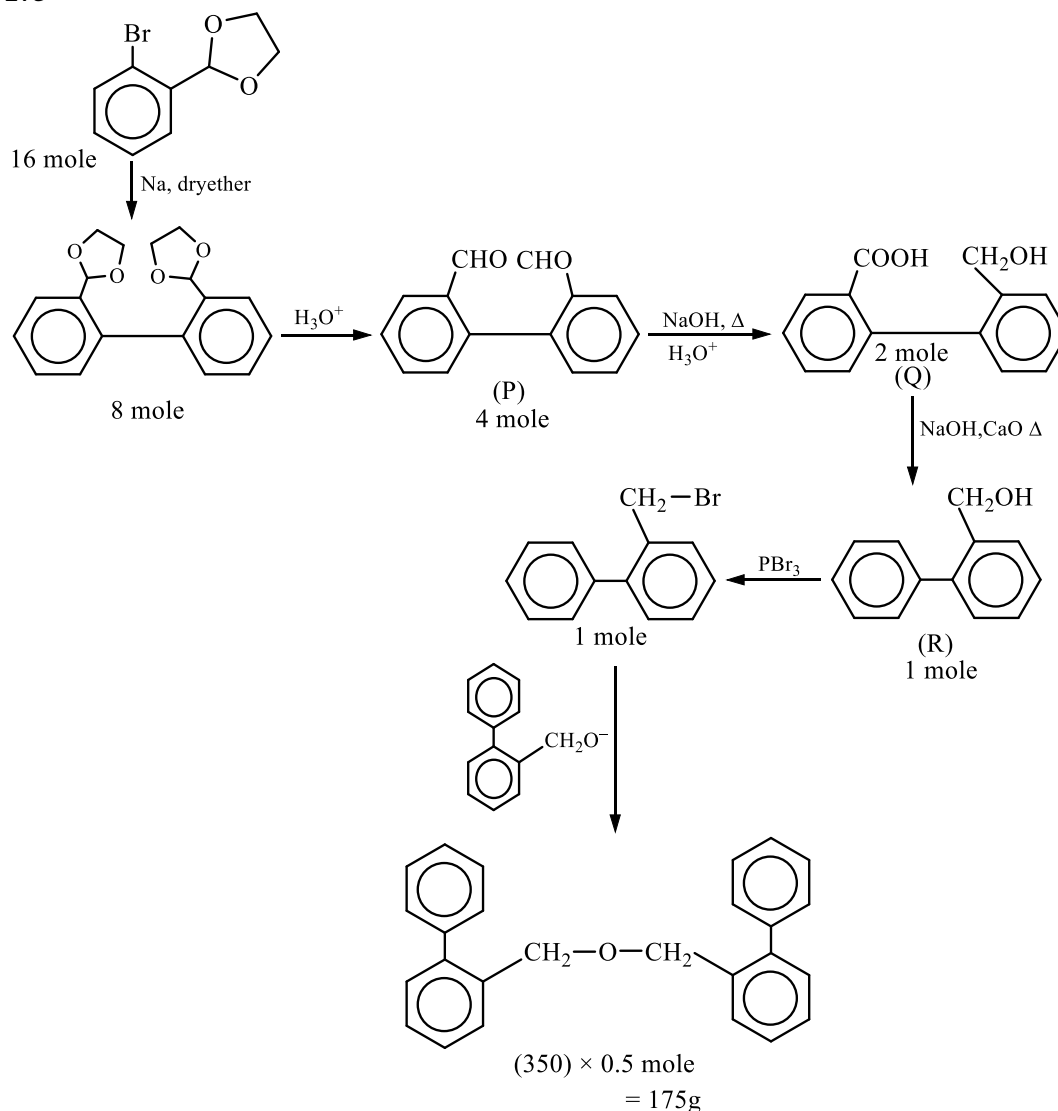
Mass of nitrogen =  $20 \times 14 = 280 \text{ gm}$

13. The reaction sequence given below is carried out with 16 moles of X. The yield of the major product in each step is given below the product in parentheses. The amount (in grams) of S produced is\_\_\_\_\_.



Use: Atomic mass (in amu): H = 1, C = 12, O = 16, Br = 80

Sol. 175



## SECTION 4 (Maximum Marks: 12)

- This section contains THREE (03) Matching List Sets.
- Each set has ONE Multiple Choice Question.
- Each set has TWO lists: List-I and List-II.
- List-I has Four entries (P), (Q), (R) and (S) and List-II has Five entries (1), (2), (3), (4) and (5).
- FOUR options are given in each Multiple Choice Question based on List-I and List-II and ONLY ONE of these four options satisfies the condition asked in the Multiple Choice Question.
- Answer to each question will be evaluated according to the following marking scheme:  
Full Marks : +4 ONLY if the option corresponding to the correct combination 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.

14. The correct match of the group reagents in List-I for precipitating the metal ion given in List-II from solutions, is

## List-I

- (P) Passing  $\text{H}_2\text{S}$  in the presence of  $\text{NH}_4\text{OH}$   
 (Q)  $(\text{NH}_4)_2\text{CO}_3$  in the presence of  $\text{NH}_4\text{OH}$   
 (R)  $\text{NH}_4\text{OH}$  in the presence of  $\text{NH}_4\text{Cl}$   
 (S) Passing  $\text{H}_2\text{S}$  in the presence of dilute  $\text{HCl}$

## List-II

- (1)  $\text{Cu}^{2+}$   
 (2)  $\text{Al}^{3+}$   
 (3)  $\text{Mn}^{2+}$   
 (4)  $\text{Ba}^{2+}$   
 (5)  $\text{Mg}^{2+}$

- (A)  $\text{P} \rightarrow 3; \text{Q} \rightarrow 4; \text{R} \rightarrow 2; \text{S} \rightarrow 1$   
 (B)  $\text{P} \rightarrow 4; \text{Q} \rightarrow 2; \text{R} \rightarrow 3; \text{S} \rightarrow 1$   
 (C)  $\text{P} \rightarrow 3; \text{Q} \rightarrow 4; \text{R} \rightarrow 1; \text{S} \rightarrow 5$   
 (D)  $\text{P} \rightarrow 5; \text{Q} \rightarrow 3; \text{R} \rightarrow 2; \text{S} \rightarrow 4$

Sol. A

$\text{P} \rightarrow$  Passing  $\text{H}_2\text{S}$  in presence of  $\text{NH}_4\text{OH}$  this is group reagent for **IV** group basic radical hence  $\boxed{\text{Mn}^{2+}}$

$\text{Q} \rightarrow (\text{NH}_4)_2\text{CO}_3$  in presence of  $\text{NH}_4\text{OH}$  is group reagent for **V** group basic radical. hence  $\boxed{\text{Ba}^{2+}}$

$\text{R} \rightarrow \text{NH}_4\text{OH}$  in presence of  $\text{NH}_4\text{Cl}$  is group reagent of **III** group basic radical hence  $\boxed{\text{Al}^{3+}}$

$\text{S} \rightarrow$  passing  $\text{H}_2\text{S}$  in presence of dil  $\text{HCl}$  is group reagent of **II** group hence  $\boxed{\text{Cu}^{2+}}$

15. The major products obtained from the reactions in List-II are the reactants for the named reactions mentioned in List-I. Match each entry in List-I with the appropriate entry in List-II and choose the correct option.

## List-I

(P) Stephen reaction

(Q) Sandmeyer reaction

(R) Hoffmann bromamide degradation reaction

(S) Cannizzaro reaction

## List-II

(1) Toluene  $\xrightarrow[\text{(ii) } \text{H}_3\text{O}^+]{\text{(i) } \text{CrO}_2\text{Cl}_2 / \text{CS}_2}$

(2) Benzoic acid  $\xrightarrow[\text{(iii) } \text{P}_4\text{O}_{10}, \Delta]{\text{(i) } \text{PCl}_5, \text{(ii) } \text{NH}_3}$

(3) Nitrobenzene  $\xrightarrow[\text{(273-278 K), } \text{H}_2\text{O}]{\text{(i) } \text{Fe, HCl}, \text{(ii) } \text{HCl, NaNO}_2}$

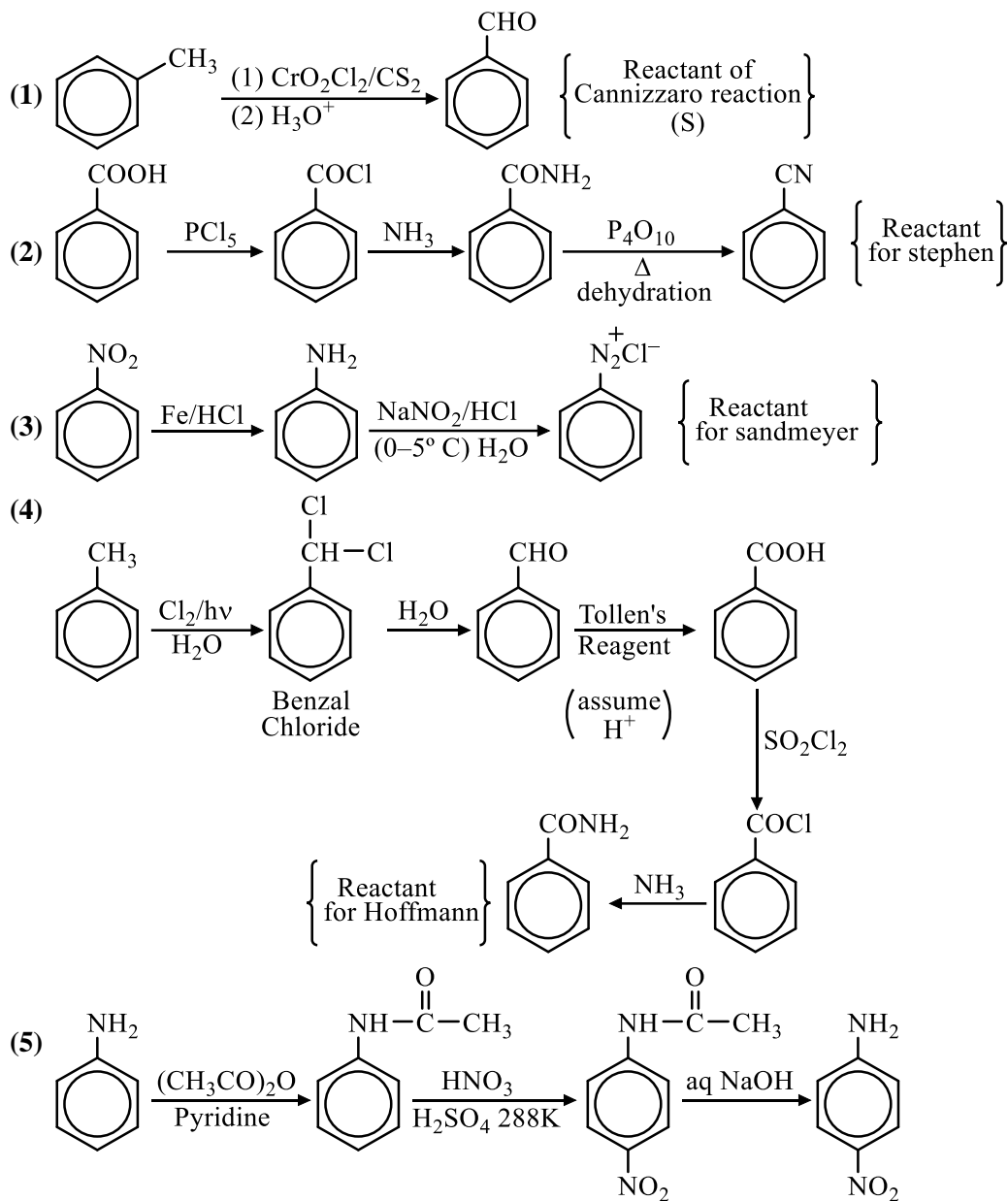
(4) Toluene  $\xrightarrow[\text{(iv) } \text{NH}_3]{\text{(i) } \text{Cl}_2 / \text{h}\nu, \text{H}_2\text{O}, \text{(ii) Tollen's reagent}, \text{(iii) } \text{SO}_2\text{Cl}_2}$

(5) Aniline  $\xrightarrow[\text{(iii) aq. NaOH}]{\text{(i) } (\text{CH}_3\text{CO})_2\text{O, Pyridine}, \text{(ii) } \text{HNO}_3, \text{H}_2\text{SO}_4, 288\text{ K}}$

- (A)  $\text{P} \rightarrow 2; \text{Q} \rightarrow 4; \text{R} \rightarrow 1; \text{S} \rightarrow 3$   
 (B)  $\text{P} \rightarrow 2; \text{Q} \rightarrow 3; \text{R} \rightarrow 4; \text{S} \rightarrow 1$   
 (C)  $\text{P} \rightarrow 5; \text{Q} \rightarrow 3; \text{R} \rightarrow 4; \text{S} \rightarrow 2$   
 (D)  $\text{P} \rightarrow 5; \text{Q} \rightarrow 4; \text{R} \rightarrow 2; \text{S} \rightarrow 1$

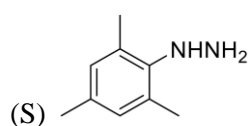
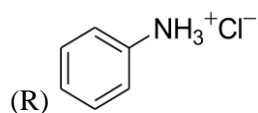
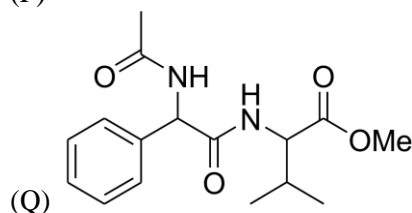
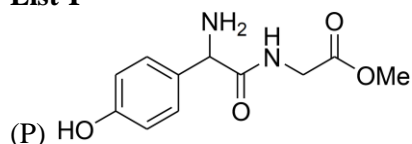


Sol. B  
Etard Reaction



16. Match the compounds in List-I with the appropriate observations in List-II and choose the correct option.

**List-I**



**List-II**

(1) Reaction with phenyl diazonium salt gives yellow dye.

(2) Reaction with ninhydrin gives purple color and it also reacts with  $\text{FeCl}_3$  to give violet color.

(3) Reaction with glucose will give corresponding hydrazone.

(4) Lassaigne extract of the compound treated with dilute  $\text{HCl}$  followed by addition of aqueous  $\text{FeCl}_3$  gives blood red color.

(5) After complete hydrolysis, it will give ninhydrin test and it DOES NOT give positive phthalein dye test.

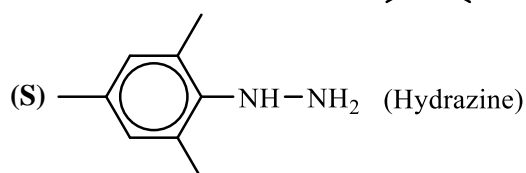
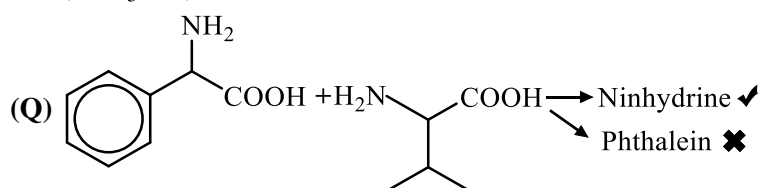
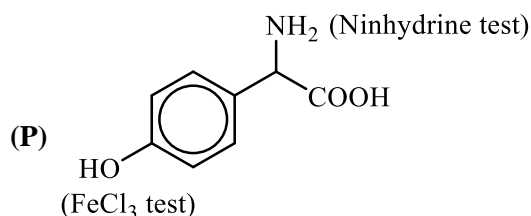
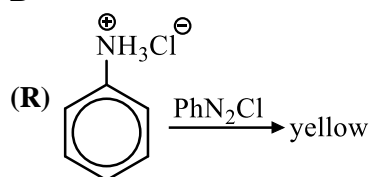
(A)  $P \rightarrow 1$ ;  $Q \rightarrow 5$ ;  $R \rightarrow 4$ ;  $S \rightarrow 2$

(B)  $P \rightarrow 2$ ;  $Q \rightarrow 5$ ;  $R \rightarrow 1$ ;  $S \rightarrow 3$

(C)  $P \rightarrow 5$ ;  $Q \rightarrow 2$ ;  $R \rightarrow 1$ ;  $S \rightarrow 4$

(D)  $P \rightarrow 2$ ;  $Q \rightarrow 1$ ;  $R \rightarrow 5$ ;  $S \rightarrow 3$

**Sol. B**





**Mr. Nitin Vijay (NV Sir)**

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**Physics**

**Chemistry**

**Math**



Name	Chandra S. Sharma (CSS Sir)	Ankush Jain (AKJ Sir)	Amit Kumar Singh (AKS Sir)	Amit Kumar Rathore (AR Sir)	Sharad Kothari (SK Sir)	Sanjay Sodhani (Sodhani Sir)	Shubham Soni (SBS Sir)
Kota Exp.	20 yrs.	15 yrs.	16 yrs.	16 yrs.	16 yrs.	16 yrs.	12 yrs.
Rank Under 100	AIR-2, 4, 5 (65+)	AIR-4, 5 (5)	10	AIR-1 (5)	AIR-1 (12)	AIR-1 (12)	16
Selection in IIT	11000+	8000+	2500+	2500+	10000+	10000+	200+
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(AVN Sir)**  
Sr. Faculty  
Exp. : 11

**Akshay Jain  
(AJ Sir)**  
Sr. Faculty  
Exp. : 9

**Rohit Malav  
(RM Sir)**  
Sr. Faculty  
Exp. : 13

**Sanjay Gandhi  
(SG Sir)**  
Sr. Faculty  
Exp. : 17



**Rahul Kumar  
(RK Sir)**  
Sr. Faculty  
Exp. : 9

**Devashish Potar  
(Dev Sir)**  
Faculty  
Exp. : 9

**Vikram Singh Meena  
(VKM Sir)**  
Faculty  
Exp. : 7

**Deepak Jain  
(D. Jain Sir)**  
Faculty  
Exp. : 9

**MATH**



**Nikhil Srivastava  
(NS sir)**  
Deputy Director  
Exp. : 22

**Amarnath Anand  
(ANNA Sir)**  
Sr. Faculty  
Exp. : 21

**Atish Agarwal  
(AA sir)**  
Sr. Faculty  
(VP-Outside Centres)  
Exp. : 22

**Jayant Chittora  
(JC sir)**  
Sr. Faculty  
Exp. : 21

**Arjun Gupta  
(Arjun sir)**  
Sr. Faculty  
Exp. : 18

**Vipin Sharma  
(VS sir)**  
Sr. Faculty  
Exp. : 13



**Deepak Singh  
(DPS Sir)**  
Sr. Faculty  
Exp. : 19

**Krishan Kumar Soan  
(KKS Sir)**  
Sr. Faculty  
Exp. : 19

**Indrajeet Chourasiya  
(IC Sir)**  
Sr. Faculty  
Exp. : 16

**Ashutosh Vishivkarma  
(Ashutosh Sir)**  
Faculty  
Exp. : 6

**Anirudha Yadav  
(ANY Sir)**  
Faculty  
Exp. : 5

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**Ram Ratan Dwivedi  
(RRD sir)**  
Sr. Faculty & Joint Director  
Exp. : 24

**Akhilesh Kanther  
(AKK sir)**  
Sr. Faculty  
Exp. : 22

**Jitendra Hirwani  
(JH Sir)**  
Sr. Faculty  
Exp. : 20

**Deepak Sharma  
(DS Sir)**  
Sr. Faculty  
Exp. : 13



**Shrawan Choudhary  
(SC Sir)**  
Sr. Faculty  
Exp. : 9

**Shaleen Singhwal  
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Exp. : 14

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**Vishal Joshi  
(VJ sir)**  
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Exp. : 23

**Dr. Deepak Joshi  
(DJ Sir)**  
Sr. Faculty  
Exp. : 30

**Devki Nandan  
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Exp. : 22



**Ritesh Kumar  
(RTK Sir)**  
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Exp. : 14

**Amit Singh Sisodiya  
(AMIS Sir)**  
Faculty  
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(SKM sir)**  
Sr. Faculty  
Exp. : 24

**Anurag Garg  
(AG sir)**  
Sr. Faculty  
Exp. : 22



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IPIA, Kota