



# PAPER SOLUTION

From Meerut

# JEE MAIN 2026

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CVPS INTEGRATED STAR COURSE



# JEE MAIN 2026 LIVE PAPER DISCUSSION

**#Q.** Two solutes A and B of 0.3 g and 0.9 g respectively (molar mass of A and B are 30 g/mol and 90 g/mol respectively. Calculate of osmotic pressure at 300 K (in atm) in 100ml solution.(A and B are non–electrolyte).



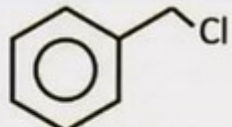
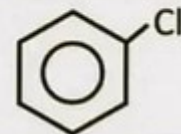
**Ans. (5)**



# JEE MAIN 2026 LIVE PAPER DISCUSSION

**#Q. Match List-I with List-II.**

**Select the correct option.**

	List-I		List-II
A.	Vinyl halide	(I)	
B.	Allyl halide	(II)	
C.	Benzyl halide	(III)	
D.	Aryl halide	(IV)	

- A** A–(II), B–(I), C–(III), D–(IV)
- B** A–(I), B–(II), C–(III), D–(IV)
- C** A–(I), B–(II), C–(IV), D–(III)
- D** A–(II), B–(I), C–(IV), D–(III)

**Ans. (B)**



# JEE MAIN 2026 LIVE PAPER DISCUSSION

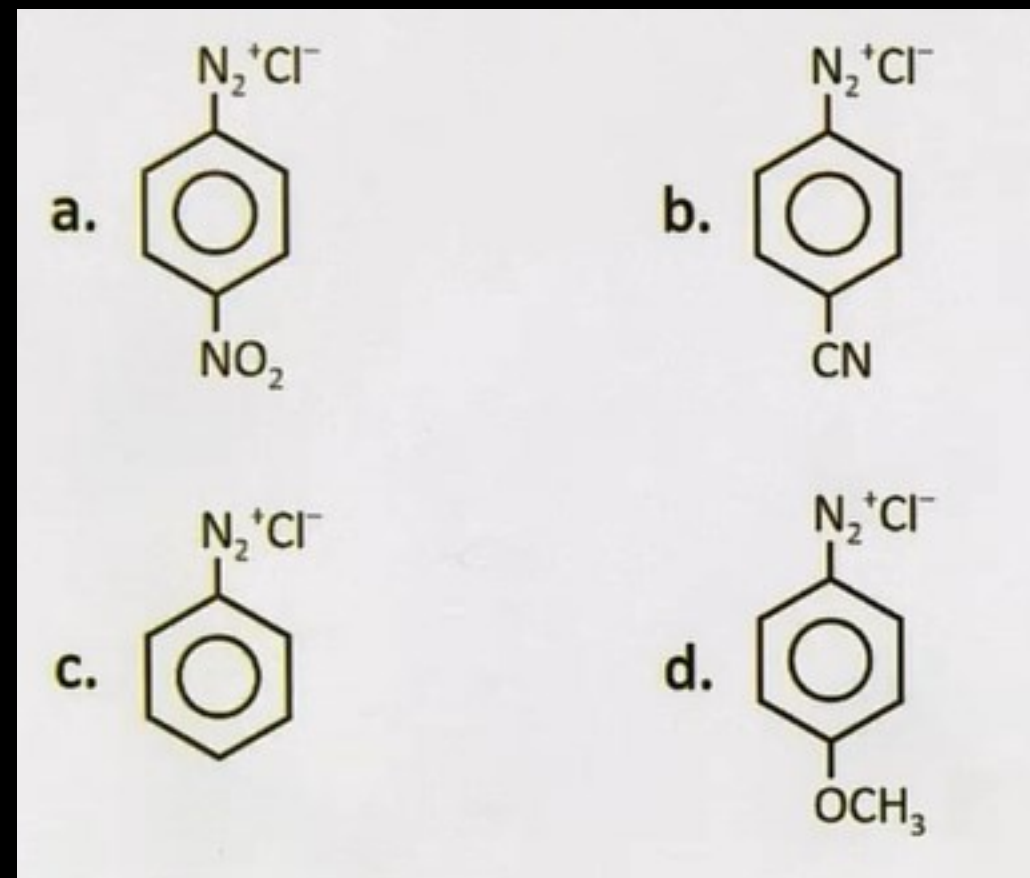
#Q. The correct order of stability of following diazonium ions is:

**A**  $a < b < c < d$

**B**  $a < b < d < c$

**C**  $c < d < b < a$

**D**  $d < c < b < a$

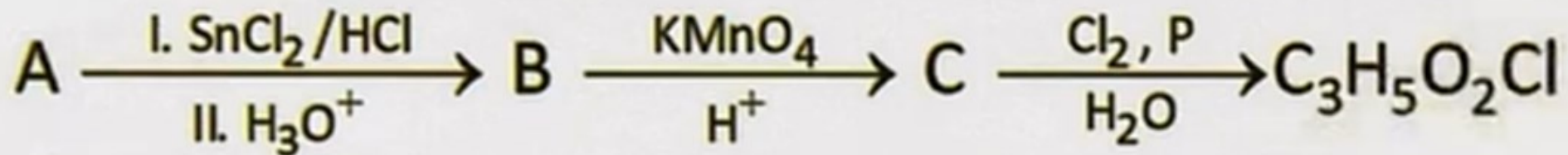


**Ans. (A)**



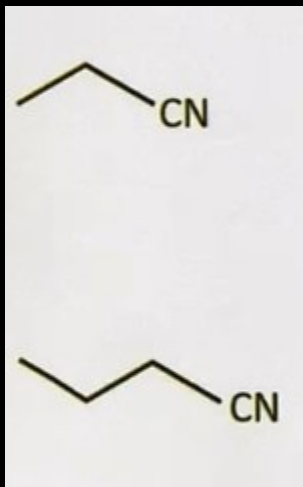
# JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q.

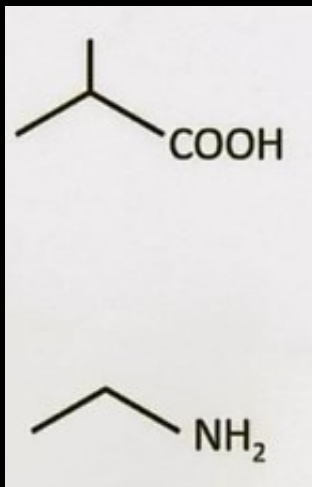


Final product has one chiral centre. Structure of A is:

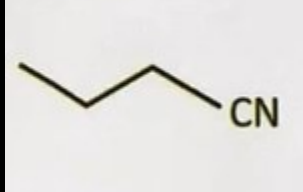
**A**



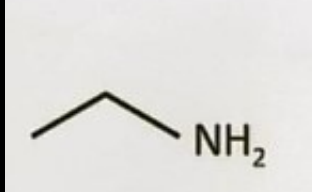
**B**



**C**



**D**



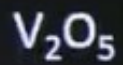
Ans. (A)



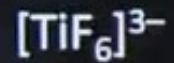
# JEE MAIN 2026 LIVE PAPER DISCUSSION

**#Q.** Which of following compound contains 3 unpaired electrons?

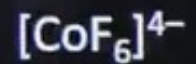
**A**



**B**



**C**



**D**

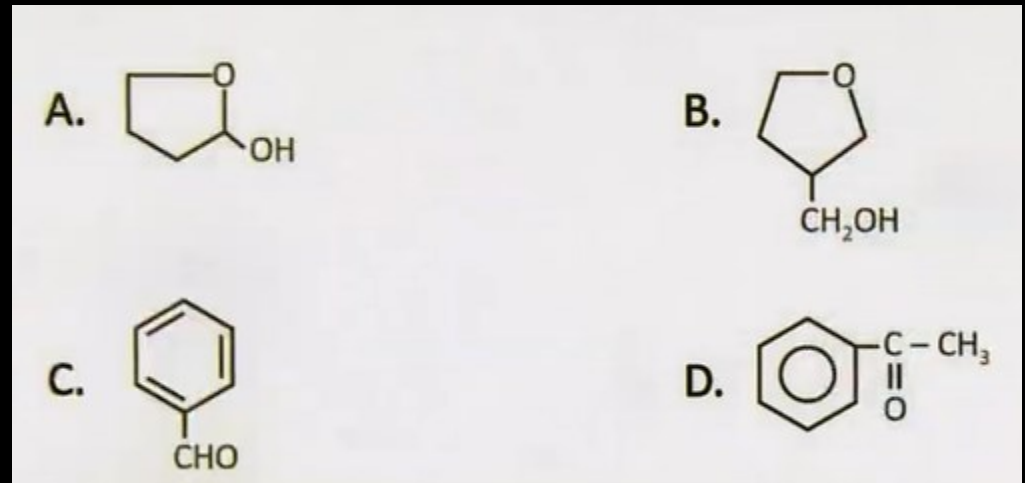


**Ans. (C)**



# JEE MAIN 2026 LIVE PAPER DISCUSSION

**#Q.** Which of the following compounds will give positive Tollen's reagent test?



**A** A, B and C only

**B** A and C only

**C** A, C and D only

**D** B, C and D only

**Ans. (B)**



# JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q.  $K_2Cr_2O_7 + I^- + H^+ \rightarrow I_2$  (x = number of moles of  $e^-$  exchanged per mole  $I_2$ )  
 $K_2Cr_2O_7 + S^{2-} \rightarrow S$  (y = number of moles of  $e^-$  exchanged per mole S)  
x + y is:

**A** 12

**B** 9

**C** 4

**D** 6

Ans. (C)





# JEE MAIN 2026 LIVE PAPER DISCUSSION

**#Q.** Match the column:

	Column-I		Column-II
(A)	$\text{IF}_3$	(I)	$\text{sp}^3\text{d}^3$ , Pentagonal bipyramidal
(B)	$\text{IF}_5$	(II)	$\text{sp}^3\text{d}$ , T-shaped
(C)	$\text{IF}_7$	(III)	$\text{sp}^3$ , Tetrahedral
(D)	$\text{ClO}_4^-$	(IV)	$\text{sp}^3\text{d}^2$ , Square pyramidal

**A** (A)-(I); (B)-(II); (C)-(III); (D)-(IV)

**B** (A)-(II); (B)-(I); (C)-(IV); (D)-(III)

**C** (A)-(II); (B)-(IV); (C)-(I); (D)-(III)

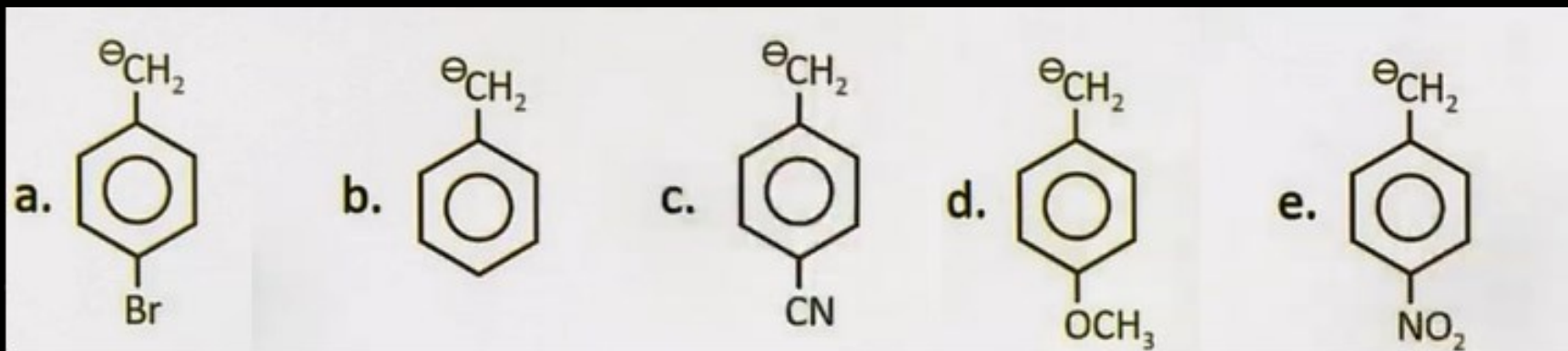
**D** (A)-(II); (B)-(III); (C)-(IV); (D)-(I)

**Ans. (C)**



# JEE MAIN 2026 LIVE PAPER DISCUSSION

**#Q.** The correct order of stability of following species is:



**A**  $e > c > a > b > d$

**B**  $d > c > b > a > e$

**C**  $e > a > c > b > d$

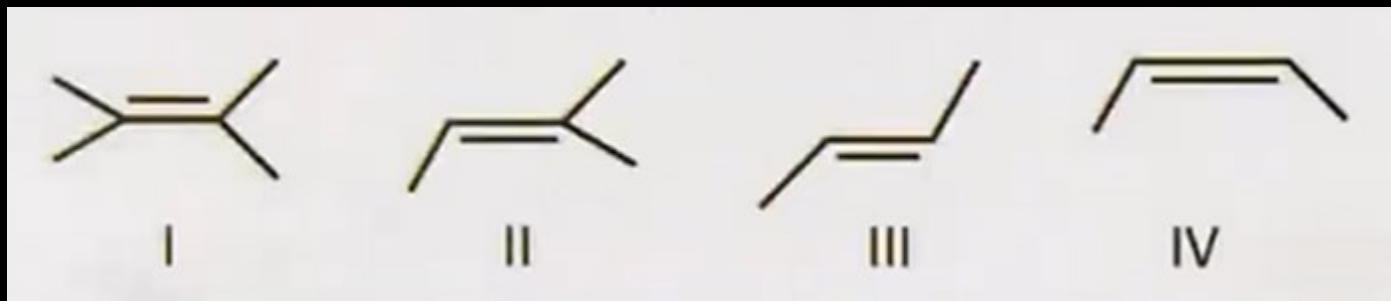
**D**  $e > a > b > c > d$

**Ans. (A)**



# JEE MAIN 2026 LIVE PAPER DISCUSSION

**#Q.** Consider the following alkene:



The correct stability order of alkenes is:

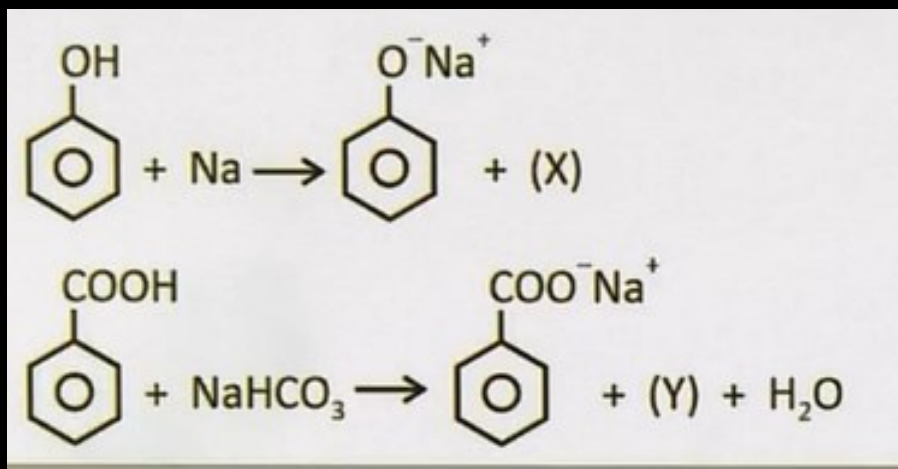
- A**  $\text{II} > \text{I} > \text{III} > \text{IV}$
- B**  $\text{I} > \text{II} > \text{IV} > \text{III}$
- C**  $\text{I} > \text{II} > \text{III} > \text{IV}$
- D**  $\text{III} > \text{I} > \text{II} > \text{IV}$

**Ans. (C)**



# JEE MAIN 2026 LIVE PAPER DISCUSSION

**#Q.** What is the sum of molar mass of X and Y formed in the given reactions?



**A** 46

**B** 44

**C** 2

**D** 42

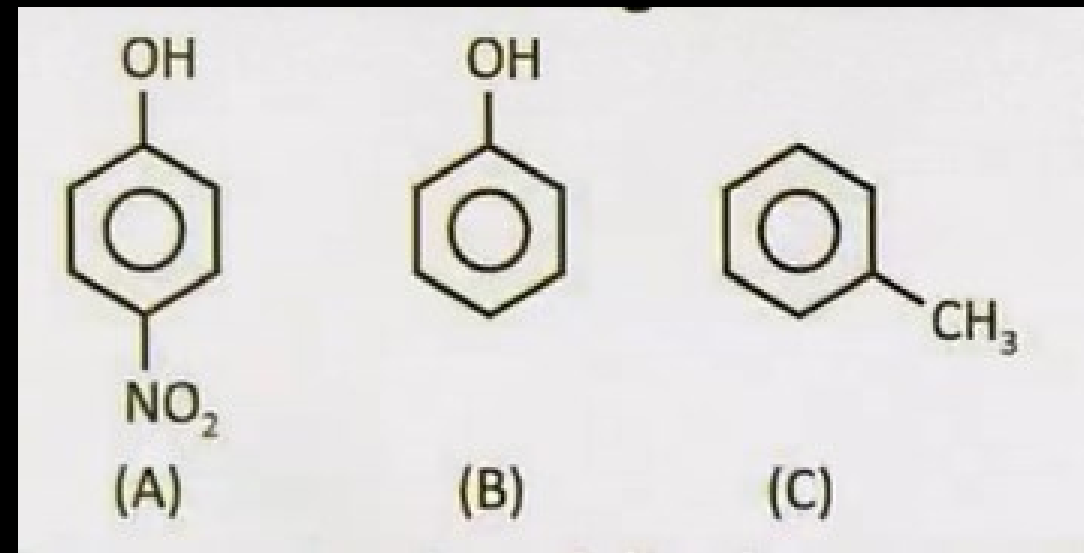
**Ans. (A)**



# JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. Consider the following molecules.

The correct order of dipole moment is:



**A**  $A > B > C$

**B**  $A > C > B$

**C**  $B > A > C$

**D**  $C > A > B$

Ans. (A)



# JEE MAIN 2026 LIVE PAPER DISCUSSION

**#Q.** Given below are two statements.

**Statement I:** Atomic radius is always more than ionic radius.

**Statement II:** The correct order of metallic character is  $K > Mg > Al > B$

In the light of above statements, choose the correct option.

- A** Both statement I and statement II are correct
- B** Both statement I and statement II are incorrect
- C** Statement I is correct but statement II is incorrect
- D** Statement I is incorrect but statement II is correct

**Ans. (D)**



# JEE MAIN 2026 LIVE PAPER DISCUSSION

**#Q. Match the following.**

- A** A-(I), B-(IV), C-(III), D-(I)
- B** A-(IV), B-(III), C-(II), D-(I)
- C** A-(III), B-(V), C-(I), D-(II)
- D** A-(II), B-(I), C-(III), D-(IV)

	Column-I		Column-II
A.	Free expansion	(I)	$W = -P_{\text{ex}}\Delta V$
B.	Reversible isothermal	(II)	$W = nC_v dT$
C.	Irreversible isothermal	(III)	$W = 0$
D.	Adiabatic reversible	(IV)	$W = -nRT \ln \frac{V_f}{V_i}$

**Ans. (B)**



# JEE MAIN 2026 LIVE PAPER DISCUSSION

**#Q.** Non-volatile solute A of mass 0.3 g (Molecular mass = 60), and non-volatile solute B of mass 0.9 g (Molecular mass = 180) in 100 mL  $\text{H}_2\text{O}$  at  $27^\circ\text{C}$ . If  $K_b = 0.52 \text{ K-Kg-mol}^{-1}$  then elevation of boiling point is:

- A** 0.52 K
- B** 0.052 K
- C** 0.026 K
- D** 0.083 K

**Ans. (B)**





# JEE MAIN 2026 LIVE PAPER DISCUSSION

**#Q.** A solution contains two group–IV cations,  $X^{2+}$  and  $Y^{2+}$ , each at an initial concentration of 0.1 M.  $H_2S$  gas is passed through the solution to form a saturated solution. Given

$$K_{sp} \text{ of } YS = 2 \times 10^{-27} \text{ M}^2$$

$$K_{sp} \text{ of } XS = 1 \times 10^{-27} \text{ M}^2$$

What is the minimum concentration of sulphide in  $[S^{2-}]$  required to begin precipitation of  $YS$ ?

- A**  $2 \times 10^{-26}$
- B**  $10^{-26}$
- C**  $3.2 \times 10^{-14}$
- D** 0.1

**Ans. (A)**



# JEE MAIN 2026 LIVE PAPER DISCUSSION

**#Q.** What is the hybridisation and spin only magnetic moment of Complex  $[\text{Co}(\text{CO})_6]\text{Cl}_3$ ?

- A**  $d^2sp^3$ , 0 BM
- B**  $sp^3d^2$ , 4.90 BM
- C**  $d^2sp^3$ , 4.90 BM
- D**  $sp^3d^2$ , 0 BM

**Ans. (A)**



# JEE MAIN 2026 LIVE PAPER DISCUSSION

**#Q.** Minimum energy transition of Balmer series (energy line having minimum energy) of H-atom has energy of  $L$  eV. If the value of minimum energy of Lyman series (energy line having minimum energy) of H-atom in terms of  $L$  is  $y$ , then the value of  $10y$  is\_\_\_\_\_.

**Ans. (54)**



# JEE MAIN 2026 LIVE PAPER DISCUSSION

**#Q.** Find % of 'N' in 0.5 g organic compound which gives 34 mL N<sub>2</sub> (g) at 715 mm Hg pressure and 300 K Aq. tension = 15 mm Hg  
(Report to nearest Integer)  $R = 0.0821 \frac{\text{Lit-atm}}{\text{K-mol}}$

**Ans. (7)**



# JEE MAIN 2026 LIVE PAPER DISCUSSION

**#Q.** Find the value of  $\log\left(\frac{K_{catalyst}}{K_{uncatalyst}}\right)$  at 300 K. if the change in activation energy ( $\Delta E_a$ ) is  $-10$  kJ/mol.  
( $R = 8 \text{ J K}^{-1} \text{ mol}^{-1}$ ) ( $\ln x = 2.31 \log x$ )

**Ans. (2)**