



PAPER SOLUTION

From Meerut

**JEE
MAIN**

JAN

22

SHIFT

2nd

2026

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JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. The correct order of electron gain enthalpy (magnitude only) for group 16 elements is:

- A** $\text{Te} > \text{Se} > \text{S} > \text{O}$
- B** $\text{S} > \text{Se} > \text{Te} > \text{O}$
- C** $\text{O} > \text{S} > \text{Se} > \text{Te}$
- D** $\text{S} > \text{O} > \text{Se} > \text{Te}$

Ans. (B)



JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. Correct order of ionisation enthalpy is:

- A** $F > Cl > Cl^- > F^-$
- B** $F > Cl^- > Cl > F^-$
- C** $Cl > F > Cl^- > F^-$
- D** $F > Cl > F^- > Cl^-$

Ans. (A)



JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. 100 g 98% by weight H_2SO_4 is mixed with 100 g 49% by weight H_2SO_4 . Mole fraction of H_2SO_4 in solution is:

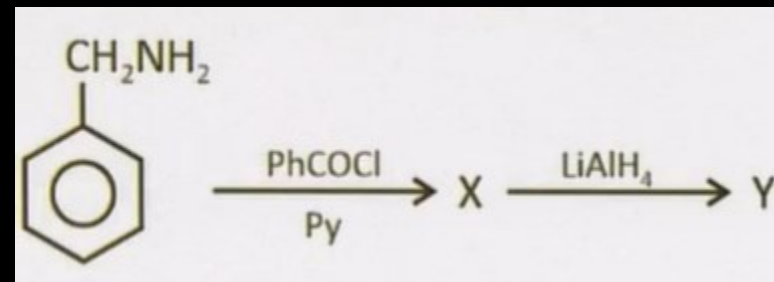
- A** 0.9
- B** 0.1
- C** 0.67
- D** 0.33

Ans. (D)



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#Q. Consider the following reaction.



The correct structure of Y is:

- A** $\text{PhCH}_2\text{NHCOPh}$
- B** $\text{Ph-CH}_2\text{NHCH}_2\text{Ph}$
- C** $\text{PhNH}_2\text{CH}_2\text{Ph}$
- D** PhCH_3

Ans. (B)



JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. Which of the following is a mixed oxide?



Ans. (C)



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#Q. Volume ratio of decimolar NH_4OH and decimolar HCl to give a solution of $\text{pH} = 9.25$ at 25°C is $x : 1$. Find x . pK_b of $\text{NH}_4\text{OH} = 4.75$

Ans. (2)



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#Q. Which of following is basic buffer?

- A** $\text{NaOH} + \text{CH}_3\text{COONa}$
- B** $\text{NaOH} + \text{Na}_2\text{SO}_4$
- C** $\text{K}_2\text{SO}_4 + \text{H}_2\text{SO}_4$
- D** $\text{NH}_4\text{OH} + \text{NH}_4\text{Cl}$

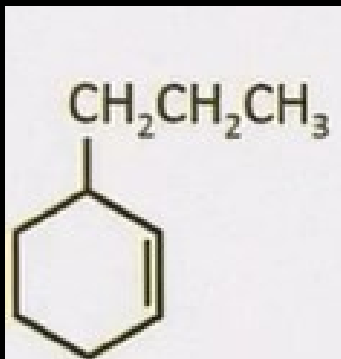
Ans. (D)



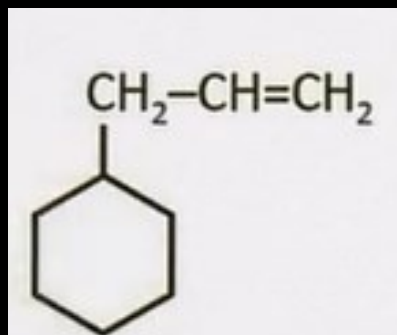
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#Q. An alkene on reductive ozonolysis gives methanal as one of the products. Its structure is:

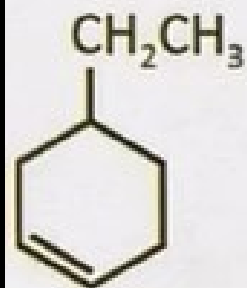
A



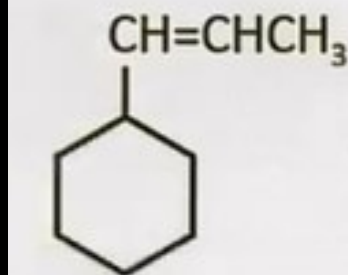
B



C



D

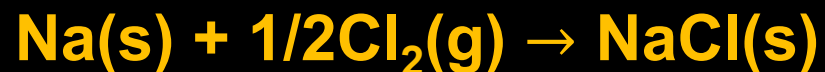


Ans. (B)



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#Q. Consider the following data :



$$\Delta H^\circ = -411 \text{ KJ/mole}^{-1}$$



$$\Delta H^\circ = 107 \text{ kJ/mole}$$



$$\Delta H^\circ = 242 \text{ kJ/mole}$$



$$\Delta H^\circ = -355 \text{ kJ/mole}$$



$$\Delta H^\circ = 502 \text{ KJ/mole}^{-1}$$

Find out lattice energy of NaCl(s).

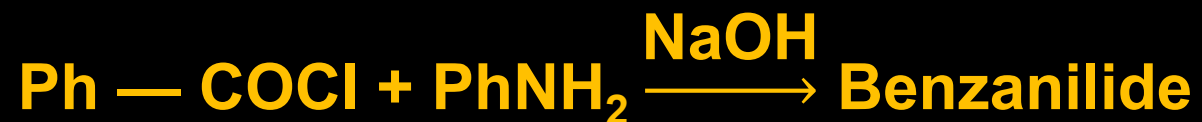
- A** —786 kJ mole⁻¹
- B** —628 kJ mol⁻¹
- C** —428 kJ mole⁻¹
- D** —393 kJ mole⁻¹

Ans. (A)



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#Q. 5.8 g Aniline is converted into benzanilide with some reaction sequences. Calculate mass of benzanilide formed, if percentage yield of reaction is 82%.



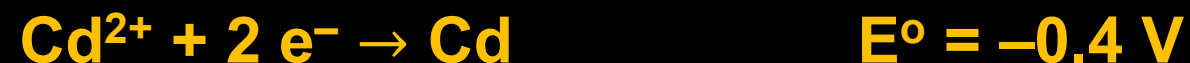
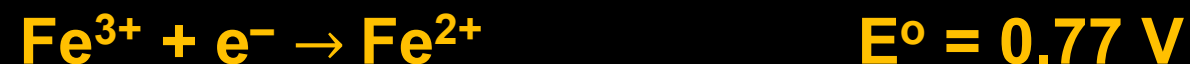
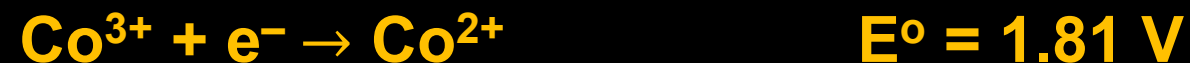
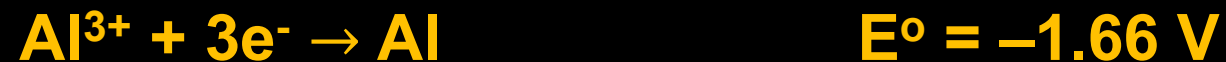
Ans. (10)



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#Q. Which of the following will behave as best reducing agent?

Given



- A** Al
- B** Co^{2+}
- C** Fe^{2+}
- D** Cd

Ans. (A)



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- A** 2-Methylhex-3-yne
- B** 2-Methylhex-2-ene
- C** 2-Pentyne
- D** 3-Methylhex-2-yne

Ans. (A)



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#Q. Given below are two statements.

Statement I : First ionisation enthalpy of Cr is greater than Mn.

Statement II : Second and third ionisation enthalpy of Cr is less than that of Mn.

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. (B)



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#Q. Which of the following is the correct IUPAC name of complex?
 $[\text{Ni}(\text{PPh}_3)_3(\text{H}_2\text{O})_3]\text{Cl}_2$

- A** Triaquattris(triphenylphosphine)nickel(II) chloride
- B** Tris(triphenylphosphine)triaquanickel(II) chloride
- C** Triaquattris(triphenylphosphine)nickelate(II)chloride
- D** Triaquattris(triphenylphosphine)nickel(III) chloride

Ans. (A)



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#Q. Match the two columns : Glucose + 'X' \rightarrow 'P'

	List-I (Reagent-X)		List-II (Product-P)
A.	Br ₂ /water	(i)	Glucosomine
B.	Acetic anhydride (excess)	(ii)	Saccharic acid
C.	Conc. HNO ₃	(iii)	Glucose pentaacetate
D.	NH ₂ OH	(iv)	Gluconic acid

A A-iv, B-ii, C-iii, D-i

B A-ii, B-iv, C-iii, D-i

C A-ii, B-iii, C-iv, D-i

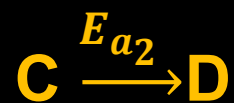
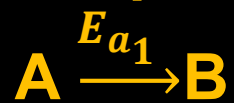
D A-iv, B-iii, C-ii, D-i

Ans. (D)



JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. Consider two reactions having same pre-exponential factor (A) at same temperature (T).



$$E_{a1} = 5 E_{a2}$$

Find out correct expression?

A

$$\frac{k_1}{k_2} = e^{-\frac{E_{a2}}{RT}}$$

B

$$\frac{k_1}{k_2} = e^{-\frac{4E_{a1}}{5RT}}$$

C

$$\frac{k_1}{k_2} = e^{-\frac{4E_{a1}}{RT}}$$

D

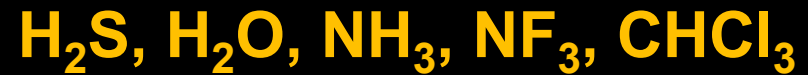
$$\frac{k_1}{k_2} = e^{-\frac{4E_{a2}}{5RT}}$$

Ans. (B)



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#Q. Consider the given species.



The number of lone pair on central atom which has lowest dipole moment.

A 0

B 1

C 2

D 3

Ans. (B)



JEE MAIN 2026 LIVE PAPER DISCUSSION

#Q. Consider the statements below

Statement I: BCl_3 is covalent in nature

Statement II: BCl_3 undergo hydrolysis to form $[\text{B}(\text{OH})_4]^-$ and BH_2^+

In the light of above statements choose the correct option.

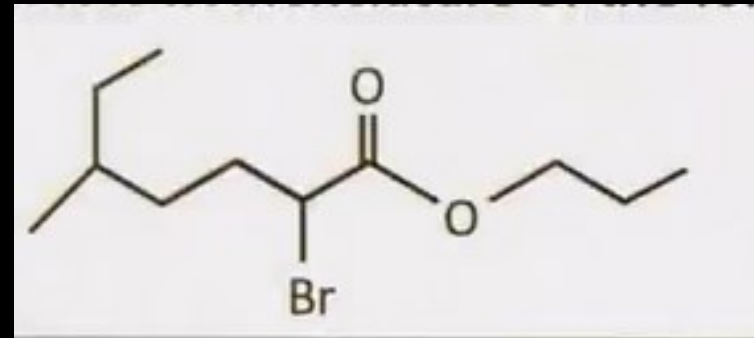
- A** Statement I and statement II both are correct
- B** Statement I and statement II both are incorrect
- C** Statement I correct statement II incorrect
- D** Statement I incorrect statement II correct

Ans. (C)



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#Q. The correct IUPAC nomenclature of the following compound is:



- A** Propyl-2-bromo-6-methylheptanoate
- B** 2-Bromo-5-methyl-1-propylheptanoate
- C** Propyl-2-bromo-5-ethylhexanoate
- D** Propyl-2-bromo-5-methylheptanoate

Ans. (D)