



# PAPER SOLUTION

From Meerut

# JEE MAIN

JAN

SHIFT

28

2<sup>nd</sup>

# 2025

**Aryan Agarwal**

Founder and CEO

CVPS INTEGRATED STAR COURSE



# CITY VOCATIONAL PUBLIC SCHOOL

## INTEGRATED STAR COURSE



# IIT-JEE & NEET

### IX-XII BATCHES

### JEE MAINS 2024 STARS

### NEET 2024 STAR

MEERUT  
TOPPER



**VANSH VERMA**

99.905%ile

JEE ADVANCED AIR 1741  
IIT DELHI



**HARSHWARDHAN**

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**GARY KAPOOR**

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**ALOK CHAUDHARY**

97.767%ile



**VANSH JOSHI**



**APURVA KAUSHIK**



**QAYAD ALI**



**SANSKRITI SHARMA**



**ADITYA KUMAR BHARGWAL**

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**ADEEBA MUHIUDDIN**

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**Aryan Agarwal**  
Founder & CEO

Disclaimer: This academic course is exclusively for day boarders only

9389338683, 7906236652



Rank Predictor



Question Paper

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# JEE MAIN 2025 LIVE PAPER DISCUSSION

#Q. Which has maximum oxidising power among the following:

- A**  $VO_2^+$
- B**  $MnO_4^-$
- C**  $Cr_2O_7^{2-}$
- D**  $TiO_2$

Ans. (B)



# JEE MAIN 2025 LIVE PAPER DISCUSSION

**#Q.** Consider the following oxides,



Change in oxidation state of vanadium when amphoteric oxide reacts with acids to form  $VO_2^+$  is:

**A** 0

**B** 1

**C** 2

**D** 3

Ans. (A)



# JEE MAIN 2025 LIVE PAPER DISCUSSION

**#Q. Find the no. of Paramagnetic species among the following.**

**$O_2$ ,  $O_2^+$ ,  $O_2^-$ ,  $NO_2$ ,  $NO$ ,  $CO$**

**Ans. 5**



# JEE MAIN 2025 LIVE PAPER DISCUSSION

**#Q. How many of the following molecules have non-zero dipole moment?  
 $\text{CH}_4$ ,  $\text{CCl}_4$ ,  $\text{CH}_2\text{Cl}_2$ ,  $\text{H}_2\text{O}$ ,  $\text{NH}_3$ ,  $\text{H}_2\text{O}_2$ ,  $\text{O}_2\text{F}_2$**

**Ans. 5**



# JEE MAIN 2025 LIVE PAPER DISCUSSION

**#Q.** Which of the following compound(s) is/are yellow in colour?  
(1) CdS (2) PbS (3) CuS (4) ZnS(Cold) (5) PbCrO<sub>4</sub>

**A** 1, 3 & 5 only

**B** 1 & 5 only

**C** 2 & 4 only

**D** 1, 2 & 5 only

Ans. (B)



# JEE MAIN 2025 LIVE PAPER DISCUSSION

**#Q.** The correct order of energy of subshell among the following is:

**A**  $1s < 2s < 3d < 3p$

**B**  $2s < 1s < 3p < 3d$

**C**  $1s < 3p < 2s < 3d$

**D**  $1s < 2s < 3p < 3d$

Ans. (D)





# JEE MAIN 2025 LIVE PAPER DISCUSSION

**#Q.** Which of the following complex is paramagnetic.



Ans. (C)



# JEE MAIN 2025 LIVE PAPER DISCUSSION

**#Q.** 30 gm  $\text{HNO}_3$  is added to a solution to prepare 75% w/w solution having density 1.25 g/mL. Volume of solution(mL) is:

**A** 32 mL

**B** 36 mL

**C** 48 mL

**D** 28 mL

**Ans. (A)**



# JEE MAIN 2025 LIVE PAPER DISCUSSION

#Q. Statement 1 :  and  are ring chain isomers.

Statement 2 :  NH<sub>2</sub> and  are functional isomers.

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

Ans. (A)



# JEE MAIN 2025 LIVE PAPER DISCUSSION

**#Q.** For an elementary reaction:



When volume becomes  $\frac{1}{3}$  rd, rate of reaction becomes.

**A** 2 times

**B** 6 times

**C** 8 times

**D** 9 times

Ans. (D)



# JEE MAIN 2025 LIVE PAPER DISCUSSION

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

List – I		List – II	
A.	$[\text{CoF}_6]^{3-}$	1.	$sp^3d^2$
B.	$[\text{Co}(\text{NH}_3)_6]^{3+}$	2.	$d^2sp^3$
C.	$[\text{NiCl}_4]^{2-}$	3.	$sp^3$
D.	$[\text{Ni}(\text{CN})_4]^{2-}$	4.	$dsp^2$

**Choose the correct answer from the options given below:**

**A** A–2, B–1, C–4, D–3

**B** A–1, B–2, C–4, D–3

**C** A–1, B–2, C–3, D–4

**D** A–2, B–1, C–3, D–4

**Ans. (C)**



# JEE MAIN 2025 LIVE PAPER DISCUSSION

**#Q.** The correct name of I & II in the following process is:

Solid  $\xrightarrow{\text{I}}$  Vapours  $\xrightarrow{\text{II}}$  Solid

**A** I → Sublimation  
II → Vaporisation

**B** I → Sublimation  
II → Decomposition

**C** I → Sublimation  
II → Deposition

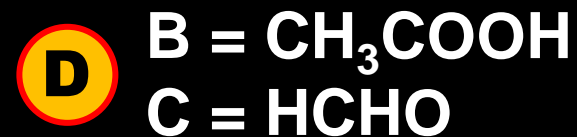
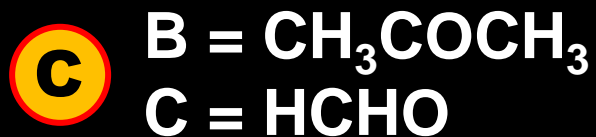
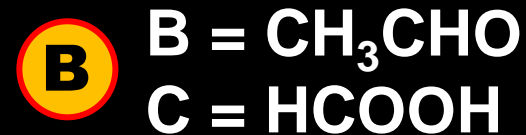
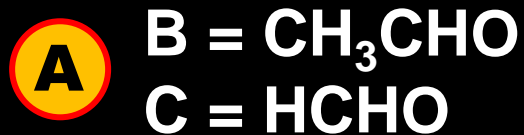
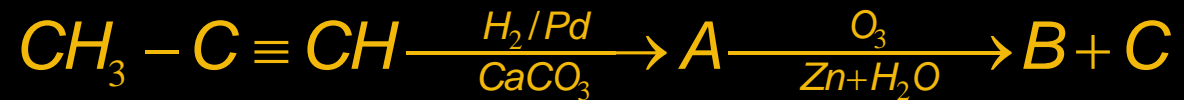
**D** I → Deposition  
II → Sublimation

Ans. (C)



# JEE MAIN 2025 LIVE PAPER DISCUSSION

**#Q.** Consider the following sequence of reaction:



Ans. (A)



# JEE MAIN 2025 LIVE PAPER DISCUSSION

**#Q.** Which of the following biomolecules has no  $C_1 - C_4$  glycosidic linkage:

**A** Maltose

**B** Amylopectin

**C** Sucrose

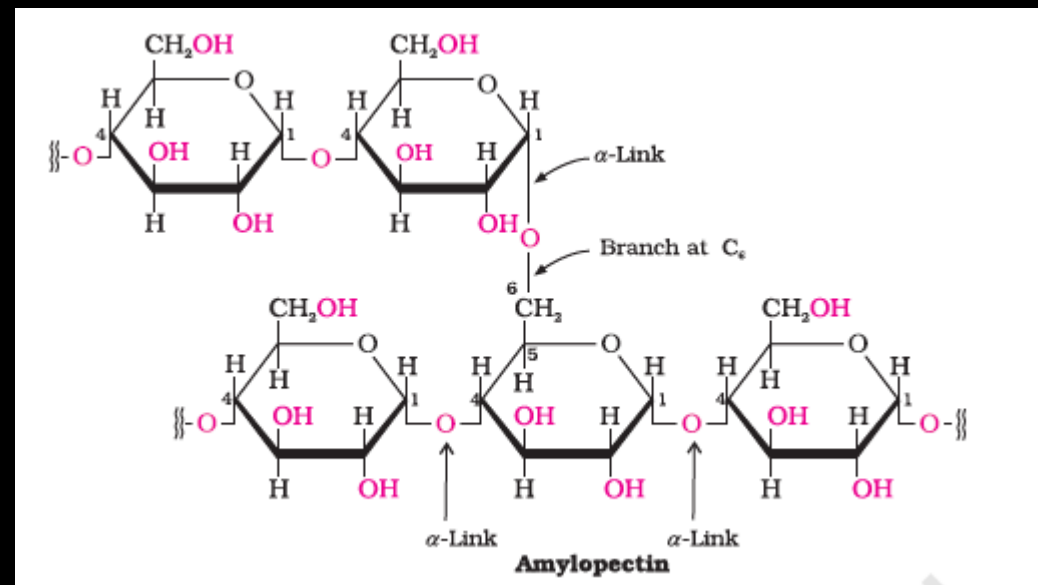
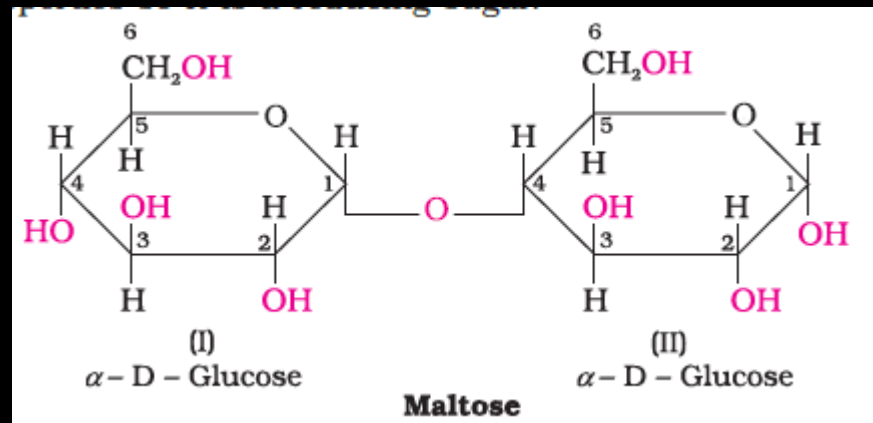
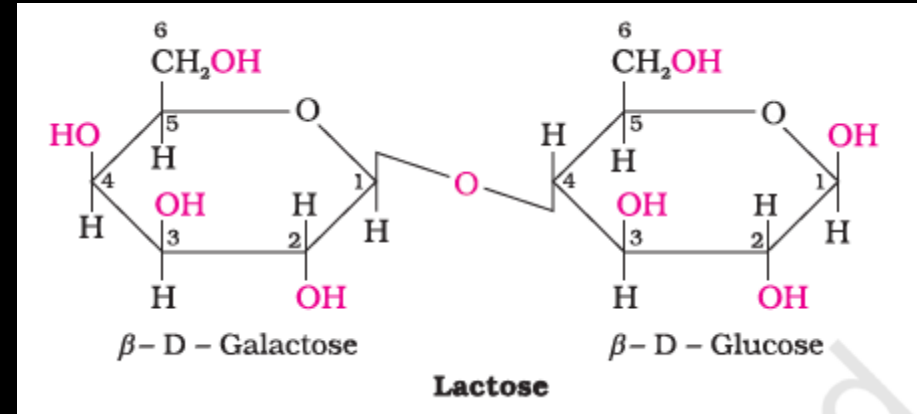
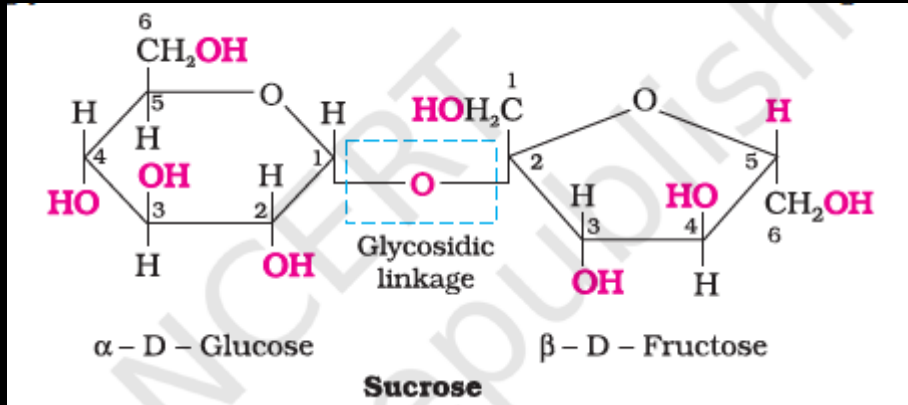
**D** Lactose

Ans. (C)





# JEE MAIN 2025 ▶ LIVE PAPER DISCUSSION





# JEE MAIN 2025 LIVE PAPER DISCUSSION

**#Q. Statement 1 : In law of octaves, elements were arranged in increasing order of their atomic numbers.**

**Statement 2 : Lothar Meyer, plotted the atomic volume against atomic weight. Choose the correct answer from the options given below:**

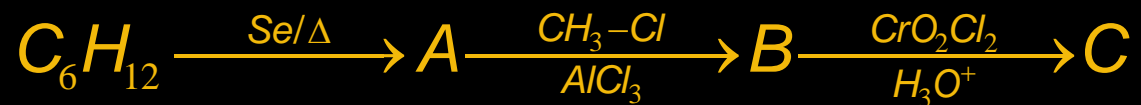
- A** Statement – I and Statement – II both are correct
- B** Statement – I and Statement – II both are incorrect
- C** Statement – I correct Statement – II is incorrect
- D** Statement – I incorrect Statement – II is correct

**Ans. (D)**



# JEE MAIN 2025 LIVE PAPER DISCUSSION

**#Q.** Consider the following sequence of reaction:



**Choose the correct option about major product.**

- A** 'C' gives Fehling's solution test
- B** 'C' can be prepared by reacting PhMgBr with CO<sub>2</sub>
- C** 'C' can give Tollen's test
- D** 'C' can give effervescence with NaHCO<sub>3</sub>

**Ans. (C)**



# JEE MAIN 2025 LIVE PAPER DISCUSSION

**#Q.** Consider the following oxides,



Oxidation state of vanadium in amphoteric oxide is:

**A** +3

**B** +4

**C** +5

**D** +6

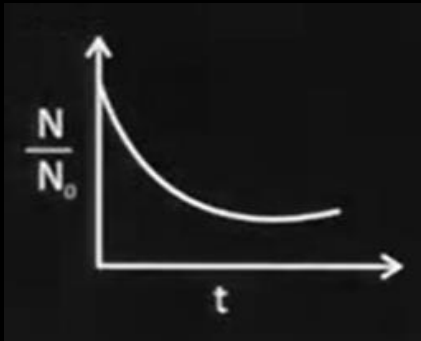
Ans. (C)



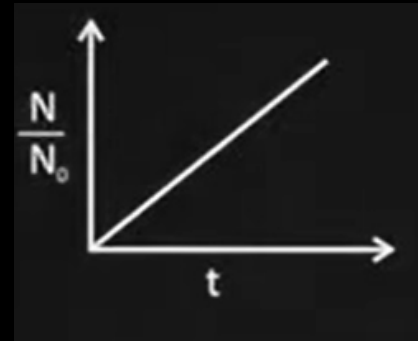
# JEE MAIN 2025 LIVE PAPER DISCUSSION

#Q. The bacterial life grows as per 1<sup>st</sup> order kinetics. Which of the following graph is correct between  $\frac{N}{N_0}$  and  $t$ ?

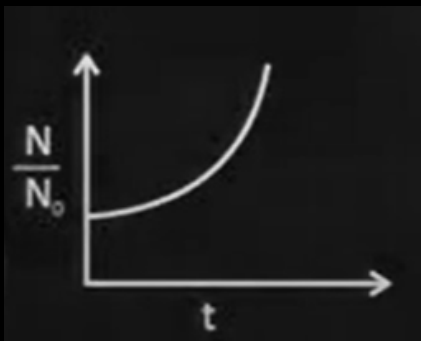
**A**



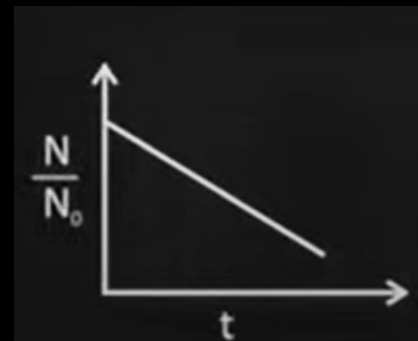
**B**



**C**



**D**

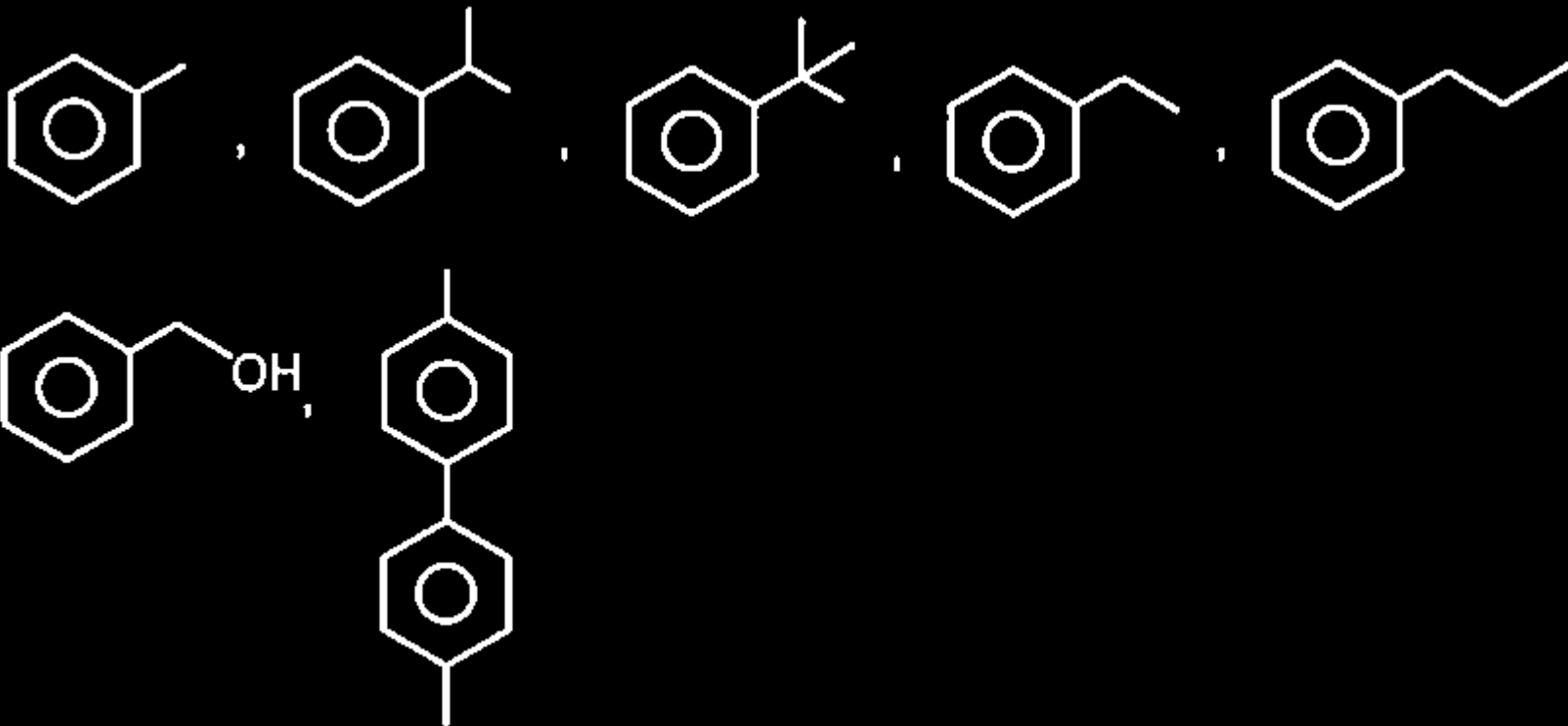


Ans. (C)



# JEE MAIN 2025 LIVE PAPER DISCUSSION

**#Q.** How many of the following will give Benzoic acid on reaction with hot alkaline  $\text{KMnO}_4$ ?



Ans. 5



# JEE MAIN 2025 LIVE PAPER DISCUSSION

**#Q.** By passing current in 600 mL of NaCl solution pH increase to 12. Find nearest Integer of current (i) if electrolysis occurs for 10 min./assume 100% efficiency.

**Ans. 0.965**



# JEE MAIN 2025 LIVE PAPER DISCUSSION

**#Q.** Identify correct conversions during Acidic Hydrolysis from following:

- (A) Starch gives Galactose
- (B) Cane sugars gives Glucose and Fructose on Hydrolysis
- (C) Milk sugar gives Glucose and Galactose
- (D) Amylopectin give Glucose and Fructose
- (E) Amylose gives only Glucose

**A** B, C and E are correct

**B** A, B and E are correct

**C** A, C and E are correct

**D** A, B and C are correct

**Ans. (A)**