

# JEE (MAIN) 2024

## QUESTIONS & SOLUTIONS

### SHIFT-2

**DATE & DAY:** 01<sup>st</sup> February 2024 & Thursday

**PAPER - 1**

**Duration:** 3 Hrs.

**Time:** 03:00 PM - 06:00 PM

**SUBJECT: CHEMISTRY**

## ADMISSIONS OPEN FOR CLASS 12+

ACADEMIC SESSION 2024-25



**TARGET: JEE (ADV.) 2024**

For Class XII Passed Student

**VISHESH COURSE**

MODE: OFFLINE/ONLINE



CLASS STARTS  
08<sup>TH</sup> APRIL, 2024



**TARGET: JEE (MAIN) 2024**

For Class XII Passed Student

**ABHYAAS COURSE**

MODE: OFFLINE/ONLINE



CLASS STARTS  
08<sup>TH</sup> APRIL, 2024

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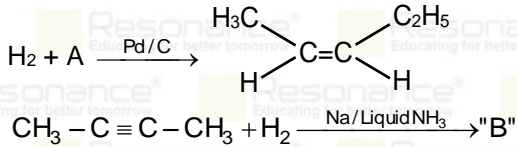
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**PART : CHEMISTRY**

61. In the given reaction identify A and B.



- (1) A : n-Pentane      B : Cis-2-Butene      (2) A : 2-Pentyne      B : Cis-2-Butene  
(3) A : n-Pentane      B : trans-2-Butene      (4) A : 2-Pentyne      B : trans-2-Butene

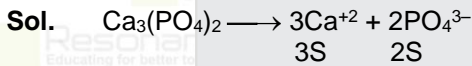
Ans. (4)

Sol. Pd/C cause syn hydrogenation of alkyne to cis alkene whereas H<sub>2</sub> in Na/NH<sub>3</sub>(l) cause anti hydrogenation of alkyne to trans alkene.

62. Solubility of calcium phosphate (molecular mass M) in water is W g, per 100 ml. at 25°C It's solubility products at 25°C will be approximately.



Ans. (3)



S → Mol/L

$S = \frac{10W}{M}$

$= (3S)^3 \times (2S)^2$

$= \left( \frac{10W}{M} \right)^3 \times \left( \frac{10W}{M} \right)^2 \times 3^3 \times 2^2$

$= 108 \times 10^5 \times \left( \frac{W}{M} \right)^5$

$\approx 100 \times 10^5 \times \left( \frac{W}{M} \right)^5 \approx 10^7 \times \left( \frac{W}{M} \right)^5$

63. Given below are two statements :

**Statement (I)** : SiO<sub>2</sub> and GeO<sub>2</sub> are acidic while SnO and PbO are amphoteric nature.

**Statement (II)** : Allotropic forms of carbon are due to property of catenation and pπ-dπ bonds.

In the light of the above statements, choose the most appropriate answer from the options given below :

- (1) **Statement I** is false but **Statement II** is true. (2) Both **Statement I** and **Statement II** are false.  
(3) Both **Statement I** and **Statement II** are true. (4) **Statement I** is true but **Statement II** is false.

Ans. (4)

Sol. Graphite has pπ-pπ bonds.

64. The set of meta directing functional groups from the following sets is :

- (1) -CH<sub>2</sub>, -NH<sub>2</sub>, -NHR, -OCH<sub>3</sub>      (2) -CN, -CHO, -NHCOCH<sub>3</sub>, -COOR  
(3) -NO<sub>2</sub>, -NH<sub>2</sub>, -COOH, -COOR      (4) -NO<sub>2</sub>, -CHO, -SO<sub>3</sub>H, -COR

Ans. (4)

Sol. -NO<sub>2</sub>, -CHO,  $\begin{array}{c} \text{O} \\ \parallel \\ \text{-C-R} \end{array}$ , -SO<sub>3</sub>H groups exhibit strong -M and -I effect, and they are meta directing groups.

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65.  $[\text{Co}(\text{NH}_3)_6]^{3+}$  and  $[\text{CoF}_6]^{3-}$  are respectively known as :  
 (1) Inner orbital Complex, Spin paired Complex (2) Spin paired Complex, Spin free Complex  
 (3) Spin free Complex, Spin paired Complex (4) Outer orbital Complex, Inner orbital Complex

Ans. (2)

Sol.  $[\text{Co}(\text{NH}_3)_6]^{3+}$   $d^6$  system  $\{t_2g^{2,2,2}, eg^{0,0}\}$ ,  $d^2sp^3$  hybridization {inner orbital complex}, spin paired complex.  
 $[\text{CoF}_6]^{3-}$ ,  $d^6$  system  $\{t_2g^{2,1,1}, eg^{1,1}\}$ ,  $sp^3d^2$  {outer orbital complex}, spin free complex.

66. The transition metal having highest 3<sup>rd</sup> ionisation enthalpy is :  
 (1) Mn (2) Fe (3) Cr (4) V

Ans. (1)

Sol. (1) Mn –  $[\text{Ar}] 3d^5, 4s^2$  (3<sup>rd</sup> electron)  
 (2) Fe –  $[\text{Ar}] 3d^6, 4s^2$   
 (3) Cr –  $[\text{Ar}] 3d^5, 4s^1$   
 (4) V –  $[\text{Ar}] 3d^3, 4s^2$

67. Match list-I with List-II.

**List – I**

**Compound**

- (A) Carbon tetrachloride  
 (B) Methylene chloride  
 (C) DDT  
 (D) Freons

**List – II**

**Use**

- (I) Paint Remover  
 (II) Refrigerators and air conditioners  
 (III) Fire extinguisher  
 (IV) Non Biodegradable insecticide

Choose the correct from the options given below :

- (1) (A) – (II), (B) – (III), (C) – (I), (D) – (IV) (2) (A) – (III), (B) – (I), (C) – (IV), (D) – (II)  
 (3) (A) – (I), (B) – (II), (C) – (III), (D) – (IV) (4) (A) – (IV), (B) – (III), (C) – (II), (D) – (I)

Ans. (2)

68. Match List-I with List-II.

**List-I**

**Reactants**

- (A) Phenol,  $\text{Zn}/\Delta$   
 (B) Phenol,  $\text{CHCl}_3$ , NaOH, HCl  
 (C) Phenol,  $\text{CO}_2$ , NaOH, HCl  
 (D) Phenol, Conc.  $\text{HNO}_3$

**List-II**

**Product**

- (I) Salicylaldehyde  
 (II) Salicylic acid  
 (III) Benzene  
 (IV) Picric acid

Choose the correct answer from the options given below :

- (1) (A) – (IV), (B) – (I), (C) – (II), (D) – (III) (2) (A) – (III), (B) – (I), (C) – (II), (D) – (IV)  
 (3) (A) – (IV), (B) – (II), (C) – (I), (D) – (III) (4) (A) – (III), (B) – (IV), (C) – (I), (D) – (II)

Ans. (2)

69. Given below are two statements:

**Statement (I)** : Dimethyl glyoxime forms a six-membered covalent chelate when treated with  $\text{NiCl}_2$  solution in presence of  $\text{NH}_4\text{OH}$ .

**Statement (II)** : Prussian blue precipitate contains iron both in (+2) and (+3) oxidation states.

In the light of the above statements, choose the most appropriate answer from the options given below :

- (1) **Statement I** is false but **Statement II** is true. (2) Both **Statement I** and **Statement II** are true.  
 (3) **Statement I** is true but **Statement II** is false. (4) Both **Statement I** and **Statement II** are false.

Ans. (1)

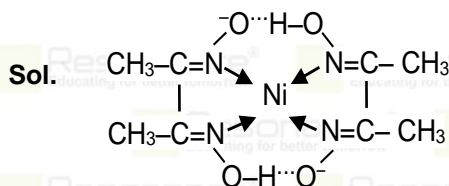
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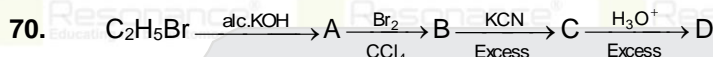
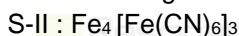
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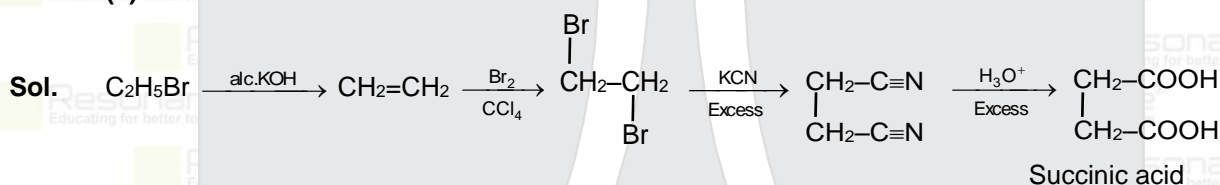
H-bonded rings are six membered, covalent bonded rings are five membered.



Acid (D) formed in above reaction is:

- (1) Malonic acid      (2) Oxalic acid      (3) Succinic acid      (4) Gluconic acid

Ans. (3)



71. Lassaigne's test is used for detection of :

- (1) Phosphorous and halogens only  
(2) Nitrogen, Sulphur and Phosphorous only  
(3) Nitrogen, Sulphur, Phosphorous and halogens  
(4) Nitrogen and Sulphur Only

Ans. (3)

Sol. Lassaigne's test is generally used for the detection of N, S, P and halogen in organic compound.

72. The strongest reducing agent among the following is :

- (1)  $\text{SbH}_3$       (2)  $\text{NH}_3$       (3)  $\text{BiH}_3$       (4)  $\text{PH}_3$

Ans. (3)

Sol. In periodic table, on moving down the group the reducing power increases so,  $\text{BiH}_3$  has highest reducing power.

73. Given below are two statements: one is labelled as Assertion (A) and the other is labelled as Reason (R)  
**Assertion (A)** : In aqueous solution  $\text{Cr}^{2+}$  is reducing while  $\text{Mn}^{3+}$  is oxidising in nature.

**Reason (R)** : Extra stability to half filled electronic configuration is observed than incompletely filled electronic configuration.

In the light of the above statements, choose the most appropriate answer from the option given below :

- (1) (A) is true but (R) is false  
(2) Both (A) and (R) are true and (R) is the correct explanation of (A)  
(3) Both (A) and (R) are true but (R) is **not** the correct explanation of (A)  
(4) (A) is false but (R) is true.

Ans. (2)

Sol.  $\text{Cr}^{2+}$  is reducing as its configuration changes from  $d^4$  to  $d^3$ , the latter having a half-filled  $t_{2g}$  level. On the other hand, the change from  $\text{Mn}^{3+}$  to  $\text{Mn}^{2+}$  results in the half-filled ( $d^5$ ) configuration which has extra stability.

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74. The functional group that shows negative resonance effect is :

- (1) -OH (2) -OR (3) -COOH (4) -NH<sub>2</sub>

Ans. (3)

Sol. It is fact.

75. The number of radial node/s for 3p orbital is :

- (1) 3 (2) 2 (3) 1 (4) 4

Ans. (3)

Sol.  $\ell$  = angular nodes

$$(n - 1) = \text{total nodes}$$

$$\text{Radial nodes} = n - \ell - 1 = 3 - 1 - 1 = 1$$

76. Which among the following has highest boiling point ?

- (1) CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-OH (2) CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CH<sub>3</sub>  
(3) CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>CHO (4) H<sub>5</sub>C<sub>2</sub>-O-C<sub>2</sub>H<sub>5</sub>

Ans. (1)

Sol. Butanol has highest boiling point as it has intermolecular hydrogen bonding.

77. Given below are two statements :

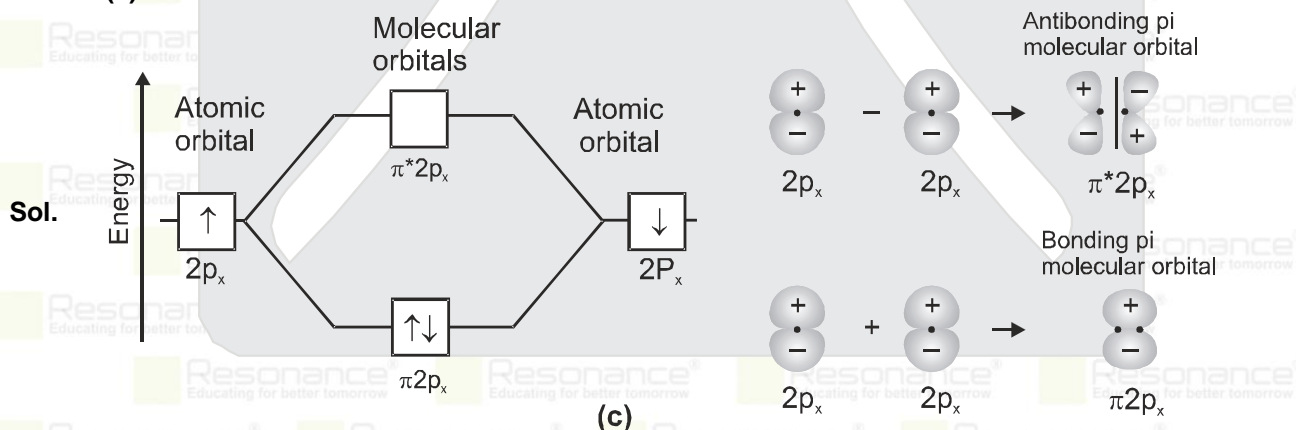
**Statement (I)** : A  $\pi$  bonding MO has lower electron density above and below the inter-nuclear axis.

**Statement (II)** : The  $\pi^*$  antibonding MO has a node between the nuclei.

In the light of the above statements, choose the most appropriate answer from the options given below :

- (1) Both Statement I and Statement II are true (2) Both Statement I and Statement II are false.  
(3) Statement I is true but Statement II is false. (4) Statement I is false but Statement II is true.

Ans. (4)



78. Given below are two statements :

**Statement (I)** : Both metals and non-metals exist in p and d-block elements.

**Statement (II)** : Non-metals have higher ionisation enthalpy and higher electronegativity than the metals.

In the light of the above statements, choose the most appropriate answer from the option given below :

- (1) Both Statement I and Statement II are false. (2) Both Statement I and Statement II are true.  
(3) Statement I is false but Statement II is true. (4) Statement I is true but Statement II is false.

Ans. (3)

Sol. Theory based.

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79. Which of the following compounds show colour due to d-d transition ?

- (1)  $K_2Cr_2O_7$  (2)  $CuSO_4 \cdot 5H_2O$  (3)  $KMnO_4$  (4)  $K_2CrO_4$

Ans. (2)

Sol. Cu :  $[Ar]3d^{10}4s^1$

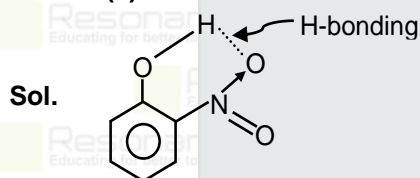
$Cu^{+2}$  :  $[Ar]3d^9$

d-electron (unpaired electron)

80. Select the compound from the following that will show intermolecular hydrogen bonding.

- (1)  (2)  $H_2O$  (3)  $C_2H_5OH$  (4)  $NH_3$

Ans. (1)



81. The number of tripeptides formed by three different amino acid using each amino acid once is \_\_\_\_\_

Ans. (6)

Sol. If A, B and C are three amino acid, then six tripeptides will form. These are

A-B-C, A-C-B, B-A-C, B-C-A, C-A-B and C-B-A

82. Mass of ethylene glycol (antifreeze) to be added to 18.6 kg of water to protect the freezing point at  $-24^\circ C$  is \_\_\_\_\_ kg (Molar mass in  $g\ mol^{-1}$  for ethylene glycol 62,  $K_f$  of water =  $1.86\ K\ kg\ mol^{-1}$ )

Ans. (15)

Sol.  $\Delta T_f$  or  $|\Delta T_f| = i \times K_f \times m$

$i = 1$ ;

$$24 = \frac{1.86 \times X \times 1000}{62} \times \frac{1}{18.6}$$

$$X = \frac{24 \times 62 \times 18.6}{1.86 \times 1000} \approx 15$$

83. Total number of isomeric compounds (including stereoisomers) formed by monochlorination of 2-methylbutane is.

Ans. (6)



84. The following data were obtained during the first order thermal decomposition of a gas A at constant volume :

$A(g) \longrightarrow 2B(g) + C(g)$

S.No. Time/s Total pressure/(atm)

1.	0	0.1
2.	115	0.28






The rate constant of the reaction is \_\_\_\_\_  $\times 10^{-2}\ s^{-1}$  (nearest integer)

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Ans. (2)

Sol.  $A(g) \longrightarrow 2B(g) + C(g)$

$$t = 0 \quad 0.1 \text{ atm} \quad 0 \quad 0$$

$$t = 115 \quad 0.1-x \quad 2x \quad x$$

$$P_T = 0.1 + 2x$$

$$0.28 = 0.1 + 2x \Rightarrow x = 0.09$$

$$(P_A)_t = 0.1 - x = 0.01$$

$$K = \frac{2.303}{t} \log \frac{0.1}{0.01}$$

$$K = \frac{2.303}{115} \log 10$$

$$K = 0.02$$

$$K = 2 \times 10^{-2}$$

Ans. (2)

85. For a certain reaction at 300 K,  $K = 10$ , then  $\Delta G^\circ$  for the same reaction is \_\_\_\_\_  $\times 10^{-1}$  kJ mol<sup>-1</sup> (Given  $R = 8.314 \text{ JK}^{-1} \text{ mol}^{-1}$ )

Ans. (57)

Sol.  $\Delta_r G^\circ = -RT \ln K_{eq}$   
 $= -2.303 RT \log K_{eq}$   
 $= -2.303 \times 8.314 \times 300 \log(10)$   
 $= \frac{-2.303 \times 8.314 \times 300}{1000} \text{ kJ/Mol}$   
 $= 5.74 \text{ J/Mol}$   
 $= 57.4 \times 10^{-1} \text{ kJ/Mol}$   
 $\sim 57 \times 10^{-1} \text{ kJ/Mol}$

86. The amount of electricity in Coulomb required for the oxidation of 1 mol of H<sub>2</sub>O to O<sub>2</sub> is \_\_\_\_\_  $\times 10^5$  C.

Ans. (2)

Sol.  $H_2O \rightarrow \frac{1}{2} O_2 + 2H^+ + 2e^-$   
 1 mol  
 1 mol H<sub>2</sub>O  $\rightarrow$  2 mole e<sup>-</sup>  $\Rightarrow$  2F  
 Electricity required = 2F  
 $= 2 \times 96500$   
 $= 1.93 \times 10^5$   
 $\approx 2 \times 10^5 \text{ C}$

87. Following Kjeldahl's method, 1 g of organic compound released ammonia, that neutralised 10 ml of 2 M H<sub>2</sub>SO<sub>4</sub>. The percentage of nitrogen in the compound is \_\_\_\_\_ %.

Ans. (56)

Sol. m.moles of H<sub>2</sub>SO<sub>4</sub> used = 10 mL  $\times$  2 M = 20 m.mole  
 m.moles of NH<sub>3</sub> neutralised = 2  $\times$  20 = 40 m.mole  
 m.moles of N atom = 40 m.mole

$$\text{wt. of N} = \frac{40 \times 14}{1000}$$

$$\% \text{ of N} = \frac{40 \times 14}{1000} \times 100 = 56\%$$

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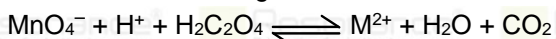
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88. Consider the following redox reaction:



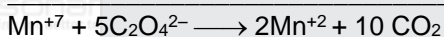
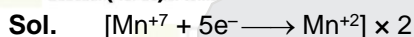
The standard reduction potentials are given as below ( $E^{\circ}_{\text{red}}$ )

$$E^{\circ}_{\text{MnO}_4^-/\text{Mn}^{2+}} = +1.51 \text{ V}$$

$$E^{\circ}_{\text{CO}_2/\text{H}_2\text{C}_2\text{O}_4} = -0.49 \text{ V}$$

If the equilibrium constant of the above reaction is given as  $K_{\text{eq}} = 10^x$ , then the value of  $x =$  \_\_\_\_\_ (nearest integer)

Ans. (338)



$$E^{\circ}_{\text{Cell}} = 0.49 + 1.51 = 2$$

$$E^{\circ}_{\text{Cell}} = \frac{0.0591}{n} \log K_{\text{eq}}$$

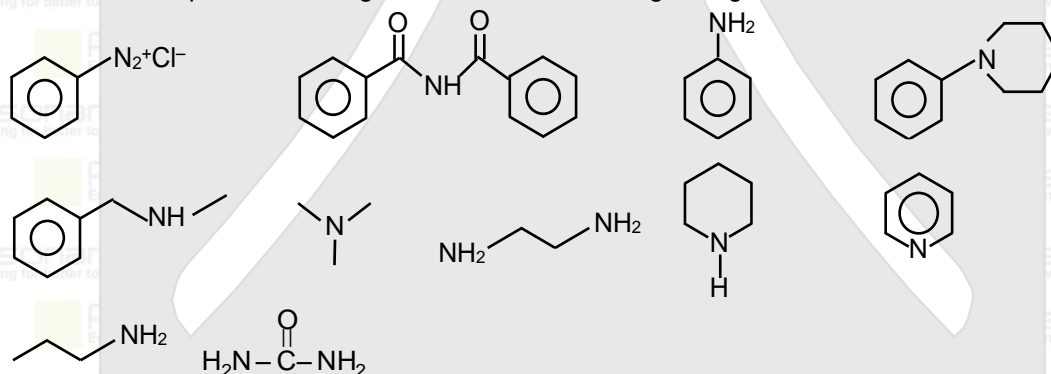
$$\frac{E^{\circ}_{\text{Cell}} \times n}{0.0591} = \log K_{\text{eq}}$$

$$\frac{2 \times 10}{0.0591} = \log K_{\text{eq}}$$

$$338 = \log K_{\text{eq}}$$

$$K_{\text{eq}} = 10^{338} \Rightarrow x = 338$$

89. Number of compounds which give reaction with Hinsberg's reagent is \_\_\_\_\_.

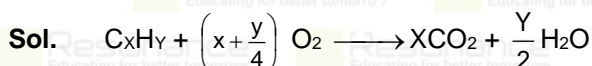


Ans. (5)

Sol. Both 1° and 2° amine gives ppt. with Hinsberg's reagent but precipitate of 1° amine is soluble in aq. KOH.

90. 10 ml. of gaseous hydrocarbon on combustion gives 40 ml. of  $\text{CO}_2(\text{g})$  and 50 ml. of water vapour. Total number of carbon and hydrogen atoms in the hydrocarbon is \_\_\_\_\_.

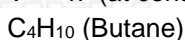
Ans. (14)



10 ml                      40 ml      50 ml

1 mol                      4 mol      10 mol

$V \propto n$  (at constant T,P)



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## « JEE (Advanced) 2023 RESULT »

AIR  
**7**



**BIKKINA A. CHOWDARY**

All India Ranks (AIR-CRL) in  
Top 50 : 8 Top 100 : 15  
All Students are from Our  
Offline/Online Classroom Programs

AIR **22**



DESHANK P. SINGH

AIR **26**



MAYANK SONI

AIR **29**



TANISHQ M MANDHANE

AIR **32**



KRITIN GUPTA

AIR **33**



NAMAN GOYAL

AIR **37**



S S SUMEDH

AIR **44**



KAUSHAL VIJAYVERGIYA

## « JEE (Main) 2023 RESULT »

22 वर्षों से लगातार... श्रेष्ठ शिक्षण, श्रेष्ठ परिणाम...

**6 AIRs in TOP-50**

AIR **5**

300/300 Marks



KAUSHAL VIJAYVERGIYA

AIR **26**

100%ile



SOHAM DAS

AIR **29**

100%ile



ASHIK STENNY

AIR **31**

100%ile



KRISH GUPTA

AIR **34**

100%ile



MAYANK SONI

AIR **50**

100%ile (Maths)



HARSHAL LASOD

**ADMISSIONS OPEN**

Academic Session 2024-25

**Class: V to XII & XII+**



**JEE**  
(Advanced)



**JEE**  
(Main)



**NEET**  
(UG)

**SCHOLARSHIP UPTO**



**100%**

Based on ResoNET (Scholarship Test)

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