

12

NEET 2026

Chemistry_Answer Key

46. Match List I with List II:

	List-I		List-II
A.	$\text{H}_3\text{C}-\text{CH}(\text{C}_6\text{H}_5)-\text{CH}_3 \rightarrow \text{C}_6\text{H}_5-\text{CH}(\text{OH})-\text{CH}_3$	I.	(i) oleum; (ii) NaOH, Δ ; (iii) H^+
B.	$\text{CH}_3\text{COOH} - \text{CH}_3\text{CH}_2\text{OH}$	II.	(i) O_2 ; (ii) $\text{H}_2\text{O}/\text{H}^+$
C.	$\text{CH}_3\text{CH}_2\text{CH}_2\text{OH} \rightarrow \text{CH}_3-\text{CH}(\text{OH})-\text{CH}_3$	III.	(i) $\text{CH}_3\text{OH}, \text{H}^+$; (ii) H_2 , catalyst
D.	$\text{C}_6\text{H}_6 \rightarrow \text{C}_6\text{H}_5\text{OH}$	IV.	(i) conc. H_2SO_4 , Δ ; (ii) $\text{H}^+/\text{H}_2\text{O}$

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

47. The major product Z formed in the following sequence of reactions is:



- (1) $\text{C}_2\text{H}_5-\text{N}=\text{N}-\text{OH}$
 (2) $\text{C}_2\text{H}_5\text{OH}$
 (3) $\text{C}_2\text{H}_5\text{NO}_2$
 (4) $\text{C}_2\text{H}_5\text{NH}_2$

48. In a qualitative analysis, Bi^{3+} is detected by appearance of precipitate of $\text{BiO}(\text{OH})(\text{s})$. Calculate pH when the following equilibrium exists at 298 K :

$$K = 4 \times 10^{-10}$$

(Given : $\log 2 = 0.3010$)

- (1) 4.699 (2) 8.714

(3) 9.301

(4) 5.286

49. When 1 dm³ of CO_2 gas is passed over hot coke, the volume of gaseous mixture after complete reaction at STP becomes 1.4 dm³. The composition of the gaseous mixture at STP is :

- (1) 0.6 dm³ of CO, 0.8 dm³ of CO_2
 (2) 0.8 dm³ of CO, 0.8 dm³ of CO_2
 (3) 0.8 dm³ of CO, 0.6 dm³ of CO_2
 (4) 0.6 dm³ of CO, 0.4 dm³ of CO_2

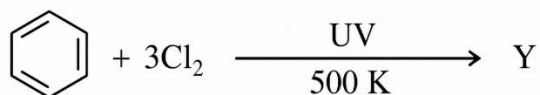
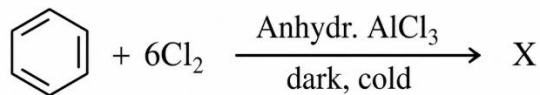
50. Match List I with List II :

	List-I (Quantum Numbers)			List-II (Orbital)
	'n'	'l'		
A.	2	1	I.	3d
B.	4	0	II.	2p
C.	5	3	III.	4s
D.	3	2	IV.	5f

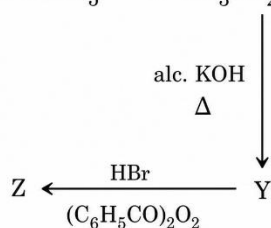
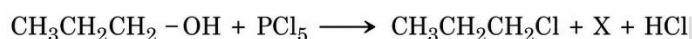
Choose the correct answer from the option given below :

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

51. The number of chlorine atoms present in the organic products X and Y of the following reactions, respectively, are



- (1) 3 and 6
 (2) 6 and 6
 (3) 6 and 3
 (4) 3 and 3
52. In the following reaction sequence, X and Z respectively are :



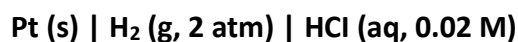
- (1) $\text{X} = \text{POCl}_3$; $\text{Z} = \text{CH}_3 - \underset{\text{Br}}{\text{CH}} - \text{CH}_3$
- (2) $\text{X} = \text{H}_3\text{PO}_3$; $\text{Z} = \text{CH}_3\text{CH}_2\text{CH}_2 - \text{Br}$
- (3) $\text{X} = \text{H}_3\text{PO}_3$; $\text{Z} = \text{CH}_3 - \underset{\text{Br}}{\text{CH}} - \text{CH}_3$
- (4) $\text{X} = \text{POCl}_3$; $\text{Z} = \text{CH}_3\text{CH}_2\text{CH}_2 - \text{Br}$

53. Match List I with List II

	List-I (Transition metal/compound/complex)		List-II (Catalytic Role)
A.	V_2O_5	I.	Preparation of ammonia from N_2/H_2 mixture
B.	Fe	II.	Polymerisation of alkynes
C.	PdCl_2	III.	Preparation of H_2SO_4 from SO_2
D.	Ni complex	IV.	Oxidation of ethyne to ethanal

Choose the correct answer from the options given below :

- (1) A-III, B-IV, C-I, D-II
 (2) A-II, B-I, C-IV, D-III
 (3) A-IV, B-I, C-III, D-II
 (4) A-III, B-I, C-IV, D-II
54. Identify the correct statement about ClF_3 from the following options :
- (1) It has a trigonal pyramidal geometry with two lone pairs on Cl atom.
 (2) It has T-shaped geometry with two lone pairs on Cl atom.
 (3) It has a planar trigonal geometry with two lone pairs on Cl atom
 (4) It has T-shaped geometry with three lone pairs on Cl atom.
55. Calculate emf of the half cell given below :



$$E^\circ_{\text{H}_2/\text{H}^+} = 0\text{V}$$

$$\text{(Given : } \frac{2.303RT}{F} = 0.059, \log 2 = 0.3010)$$

- (1) 0.109 V (2) 0.035V

(3) -0.035 V (4) 0.109 V

56. Match List I with List II :

	List-I (Order of reaction)		List-II
A.	Zero order	I.	$\text{mol}^{-1}\text{ L s}^{-1}$
B.	First order	II.	$\text{mol}^{-2}\text{ L}^2\text{ s}^{-1}$
C.	Second order	III.	s^{-1}
D.	Third order	IV.	$\text{mol L}^{-1}\text{ s}^{-1}$

Choose the correct answer from the options given below :

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

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

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

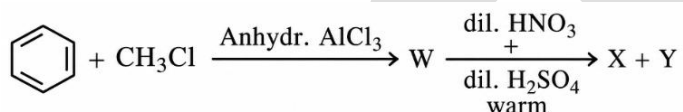
(4) A-IV, B-II, C-I, D-III

57. The calculated 'spin-only' magnetic moment of $\text{Ti}^{2+}(\text{3d}^2)$ is :

(1) 2.84 BM (2) 5.92 BM

(3) 4.90 BM (4) 3.87 BM

58. Two products X and Y are formed in the following reaction sequence.



The suitable method that can be used for the separation of products X and Y is :

(1) Continuous extraction

(2) Differential extraction

(3) Fractional distillation

(4) Sublimation

59. A bulb is rated at 150 watt, converting 8% energy into light. If energy of one photon is $4.42 \times 10^{-19}\text{ J}$, how many photons are emitted by the bulb per second ?(1) 1.35×10^{19} (2) 4.06×10^{19} (3) 2.71×10^{19} (4) 27.2×10^{19} 60. In a test tube containing a salt, a few drops of dilute H_2SO_4 was added, which gave colourless

vapours having the smell of vinegar. The vapours turned the blue litmus paper red.

Identify the correct anion from the following :

(1) Acetate, CH_3COO^- (2) Carbonate, CO_3^{2-} (3) Sulphate, SO_4^{2-} (4) Sulphide, S^{2-}

61. Select the reagents that reduce nitriles to primary amines :

A. (i) LiAlH_4 ; (ii) H_2O B. $\text{Sn} + \text{HCl}$ C. H_2/Ni D. $\text{Na}(\text{Hg})/\text{C}_2\text{H}_5\text{OH}$ E. $\text{Br}_2/\text{aq. NaOH}$

Choose the correct answer from the options given below :

(1) A, B and C only

(2) A, C and D only

(3) A, D and E only

(4) B, D and E only

62. Identify the incorrect statement from the following :

(1) Carbon has the ability to form $p\pi-p\pi$ multiple bond with itself.(2) ECl_3 (E = B and Al) is a monomer when E = B and a dimer when E = Al.(3) Oxygen exhibits only -2 oxidation state.(4) The order of catenation property of Group 14 elements is $\text{C} \gg \text{Si} > \text{Ge} \approx \text{Sn}$.63. Although $+3$ oxidation state is most common in lanthanoids, cerium still shows $+4$ oxidation state because :

(1) Its nearest inert gas is Radon.

(2) After losing one more electron, it acquires $4f^{14}$ electronic configuration.

(3) Its atomic number is 61

(4) After losing one more electron, it acquires $4f^0$ electronic configuration.

64. During Lassaigne's test, the elements present in an organic compound are converted from :

- (1) covalent form to covalent form
- (2) ionic form to ionic form
- (3) covalent form to ionic form
- (4) ionic form to covalent form

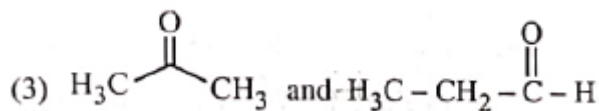
65. The number of hydrogen atoms present in 5.4 g of urea is :

(Given : Molar mass of urea : : 60 g mol⁻¹, N_A : 6.022 × 10²³ particles mol⁻¹)

- (1) 2.168 × 10²³
- (2) 2.168 × 10²²
- (3) 1.084 × 10²²
- (4) 1.084 × 10²³

66. The pair of molecules that are metamers among the following is :

- (1) CH₃CH₂CH₂OH and CH₃ – CH(OH) – CH₃
- (2) CH₃OCH₂CH₂CH₃ and CH₃CH₂OCH₂CH₃



- (4) CH₃CH₂CH₂CH₂CH₃ and (CH₃)₂CHCH₂CH₃

67. Identify the incorrect statement from the following :

- (1) P(C₂H₅)₃ and As(C₆H₅)₃ form dπ-dπ bond with transition metals.
- (2) Nitrogen can form dπ-pπ bond with oxygen.
- (3) Nitrogen can form pπ-pπ multiple bonds with itself.
- (4) Phosphorus, arsenic and antimony show catenation property.

68. Phenolphthalein is used as an indicator for the titration of sodium hydroxide solution against a standard solution of oxalic acid. The colour change that is observed at an alkaline pH close to the equivalence point during this titration is :

- (1) pinkish red to yellow
- (2) yellow to pinkish red
- (3) colourless to pink
- (4) pink to colourless

69. Match List I with List II :

	List-I		List-II
A.	C ₂ H ₄	I.	3 σ bonds, 2 π bonds
B.	C ₂ H ₂	II.	3 σ bonds, one lone pair
C.	CH ₄	III.	4 σ bonds
D.	NH ₃	IV.	5 σ bonds, 1 π bond

Choose the correct answer from the options given below :

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

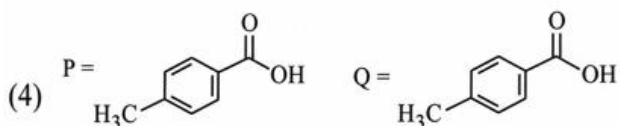
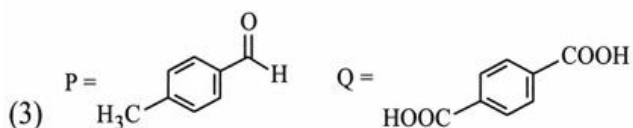
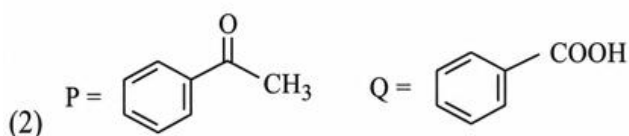
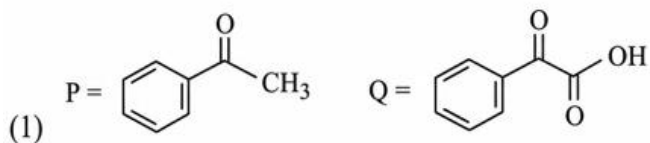
70. At a certain temperature, T (K), during a process, 500 J is absorbed by the system and work of 200 J is done by the system. Then change in internal energy of the system is :

- (1) 700 J
- (2) 300 J
- (3) 400 J
- (4) 500 J

71. Methane reacts with steam at 1273 K in the presence of nickel catalyst to form

- (1) CO and H₂
- (2) CO and H₂O
- (3) CO₂ and H₂O
- (4) CO₂ and H₂

72. Compound P (C_6H_8O) gives a red orange precipitate with 2,4-DNP reagent and it does not reduce Fehling's reagent. On drastic oxidation with chromic acid, P gives an aromatic product Q that produces effervescence on treating with aq. $NaHCO_3$. Compounds P and Q, respectively, are :



(2)

73. A solution of copper sulphate is electrolysed for 10 minutes with a current of 1.5 amperes. The mass of copper deposited at cathode is : (Given : Molar mass of $Cu = 63 \text{ g mol}^{-1}$; $1 \text{ F} = 96487 \text{ C mol}^{-1}$)

- (1) 2.4036 g (2) 1.7018 g
(3) 0.5876 g (4) 0.2938 g

74. The functional group that can be identified through phthalein dye test is

- (1) Phenolic (2) Alcohol
(3) Aldehyde (4) Carboxylic acid

75. The correct statement with regard to the secondary structure of DNA/RNA is :

- (1) DNA possesses a single strand helix structure and contains uracil as one of the four bases.
(2) RNA possesses a single strand helix structure and contains thymine as one of the four bases.
(3) DNA possesses a double strand helix structure and contains thymine as one of the four bases.
(4) RNA possesses a double strand helix structure and contains uracil as one of the four bases.

76. Identify the correct statements :

- A. The molality of 2.5 g of ethanoic acid (Molar mass : 60 g mol^{-1}) in 75 g of benzene solution is 0.556 m.
B. The molarity of a solution containing 5 g of NaOH (molar mass : 40 g mol^{-1}) in 450 mL of solution is 0.278 M at 298 K.
C. Aquatic species are more comfortable in cold water.
D. The solubility of gas increases with decrease in pressure.
E. For a binary mixture of A and B, the number of moles of A and B are n_A and n_B respectively. The mole fraction of B will be

$$x_B = \frac{n_A}{n_A + n_B}$$

Choose the correct answer from the options given below :

- (1) A and C only
(2) A, B and C only
(3) A, D and E only
(4) A and B only

77. Mixture of chloroform and acetone forms a solution with negative deviation from Raoult's law due to :

- (1) formation of hydrogen bonding between acetone and chloroform.
- (2) increase in escaping tendency of molecules of each component.
- (3) stronger intermolecular forces between chloroform molecules than those between chloroform and acetone molecules.
- (4) repulsive forces.

78. At 298 K, a certain buffer solution contains equal concentrations of X^- and HX , K_b for X^- is 10^{-10} .

What is the pH of this buffer solution ?

- (1) 2
- (2) 10
- (3) 4
- (4) 6

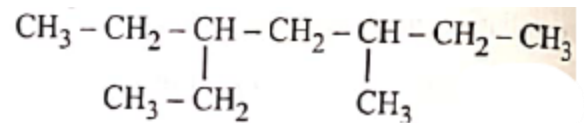
79. Identify the incorrect statement from the following :

- (1) The IUPAC name of the element with atomic number 107 is Unnilseptium.
- (2) The largest and the smallest species among Mg , Mg^{2+} , Al and Al^{3+} are Al and Mg^{2+} , respectively.
- (3) The similarity in behaviour of Li with Mg is referred to as 'diagonal relationship'.
- (4) The oxidation state and covalency of Al in $[AlCl(H_2O)_5]^{2+}$ are 3 and 6 respectively.

80. The correct order of increasing metallic character of Na , Be , P , Mg and Si is :

- (1) $P < Si < Be < Mg < Na$
- (2) $Be < S < P < Mg < Na$
- (3) $P < S < Na < Mg < Be$
- (4) $P < Mg < Be < Si < Na$

81. The correct IUPAC name of the following compound is :



- (1) 2,4-diethylhexane
- (2) 3,5-diethylhexane
- (3) 3-ethyl-5-methylheptane
- (4) 3-methyl-5-ethylheptane

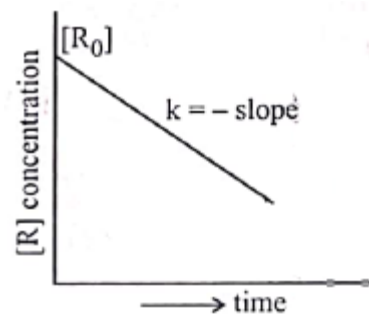
82. Match List I with List II :

	List-I (Complex/ion n)		List-II (Shape/geometry)
A.	$Pt(Cl_2)(NH_3)_2$	I.	Octahedral
B.	$[Co(NH_3)_6]Cl_3$	II.	Trigonal bipyramidal
C.	$[NiCl_4]^{2-}$	III.	Square planar
D.	$[Fe(CO)_5]$	IV.	Tetrahedral

Choose the correct answer from the options given below :

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

83. For a certain reaction $R \rightarrow \text{Product}$, the plot of concentration $[R]$ vs time has a negative slope as shown. The order of reaction is :

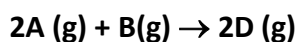


- (1) 0
- (2) 1
- (3) 2
- (4) 2.5

84. Which one of the following is an ambidentate ligand ?

- (1) Ethylenediaminetetraacetate ion
- (2) Oxalate
- (3) Ethane-1,2-diamine
- (4) Thiocyanate

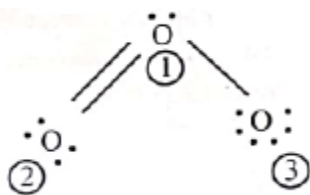
85. Consider the following reaction :



$\Delta U^\circ = -10 \text{ kJ mol}^{-1}$ and $\Delta S^\circ = -44 \text{ J K}^{-1}$ at 298 K.

Identify the correct option with ΔG° for the reaction and spontaneity of the reaction at 298 K. (Given : $R = 8.31 \text{ J mol}^{-1} \text{ K}^{-1}$)

- (1) $-1.635 \text{ kJ mol}^{-1}$, spontaneous
- (2) $+0.63568 \text{ kJ mol}^{-1}$, non-spontaneous
- (3) $-0.63568 \text{ kJ mol}^{-1}$, spontaneous
- (4) $+1.635 \text{ kJ mol}^{-1}$, non-spontaneous



86.

The correct formal charges on oxygen atoms numbered 2, 1 and 3 respectively are :

- (1) $-1, 0, +1$
- (2) $0, +1, -1$
- (3) $0, 0, 0$
- (4) $+1, 0, -1$

87. Given below are certain reactions. Identify the reaction for which $K_p \neq K_c$.

- (1) $\text{H}_2(g) + \text{I}_2(g) \rightleftharpoons 2\text{HI}(g)$
- (2) $\text{N}_2(g) + \text{O}_2(g) \rightleftharpoons 2\text{NO}(g)$
- (3) $\text{N}_2(g) + 3\text{H}_2(g) \rightleftharpoons 2\text{NH}_3(g)$
- (4) $\text{H}_2\text{O}(g) + \text{CO}(g) \rightleftharpoons \text{H}_2(g) + \text{CO}_2(g)$

88. Given below is an expression for the rate constant of a first order reaction occurring at a certain temperature, T (K).

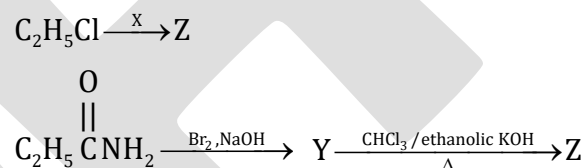
$$\ln k = 14.34 - \frac{1.25 \times 10^4}{T}$$

The energy of activation in kcal mol^{-1} for the reaction is :

(Given : k in s^{-1} , $R = 1.987 \text{ cal mol}^{-1} \text{ K}^{-1}$)

- (1) 12.42
- (2) 14.34
- (3) 18.63
- (4) 24.84

89. The following two reactions give the same foul smelling product Z.



X and Z, respectively, are

- (1) X = AgCN; Z = $\text{C}_2\text{H}_5\text{CN}$
- (2) X = KCN; Z = $\text{C}_2\text{H}_5\text{CN}$
- (3) X = KCN; Z = $\text{C}_2\text{H}_5\text{NC}$
- (4) X = AgCN; Z = $\text{C}_2\text{H}_5\text{NC}$

90. Match List I with List II :

	List-I (Complex)		List-II (Type of isomerism)
A.	$[\text{Pt}(\text{NH}_3)_2\text{Cl}_2]$	I.	Optical
B.	$[\text{Co}(\text{en})_3]^{3+}$	II.	Solvate
C.	$[\text{Co}(\text{NH}_3)_5\text{NO}_2]^{2+}$	III.	Geometrical
D.	$[\text{Cr}(\text{H}_2\text{O})_6]\text{Cl}_3$	IV.	Linkage

Choose the correct answer from the options given below :

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

NEET 2025

80 घुरंधर

MBBS
सिलेक्शन



NOW @
NAIR
MUMBAI

99.55%ile

AYUSH VISHWAKARMA

556 / 720

GMC
BARAMATI

SHRUTI TIWARI
544/720
99.31%ile

GMC
SOLAPUR

ASHWIKHA CHAKKATTIL
536/720
99.09%ile

RGMC
MUMBAI

RIDIMA BHOSLE
536/720
99.09%ile

KJS
SION

TISHA JANGID
529/720
98.87%ile

GMC
MUMBAI

SHRADDHA DUBEY
527/720
98.80%ile

GMC
AKOLA

SHRADDHA YADAV
526/720
98.77%ile

GMC
ALIBAUG

MAHEK TIWARI
523/720
98.65%ile

SVNGMC
YAVATMAL

KHUSHI NIHALANI
522/720
98.61%ile

GMC
DHULE

TUSHAR JANGID
520/720
98.54%ile

GMC
AMRAVATI

POOJA SINGH
517/720
98.42%ile

GMC
NANDURBAR

KHUSHI MISHRA
515/720
98.33%ile

GMC
NANDURBAR

SHRUTI MAURYA
511/720
98.16%ile

GMC
GONDIA

ABDUL CHOUDHARY
511/720
98.16%ile

JNMC
BELGAUM

SUBHAAN PATANWALA
507/720
97.97%ile

GMC
BHANDARA

MONAL SINGH
506/720
97.92%ile

GMC
GADCHIROLI

ADWITA MISHRA
505/720
97.87%ile

GMC
GADCHIROLI

DHANRAJ MISHRA
504/720
97.82%ile

KMC
GADCHIROLI

AKSHITA TRIPATHI
504/720
97.82%ile

NEET 2025



NOW @
LTMC
MUMBAI
99.48%ile

MD. ARQAM ANSARI

552 /720



NOW @
GT & CAMA
MUMBAI
99.46%ile

TIRTHA NAIR

551 /720



GMC
ALIBAUG

AMEERA KAZI

533/720

99.00%ile



GMC
NANDED

PRATHVI SALIAN

532/720

98.97%ile



RGMC
MUMBAI

NEHA SHARMA

530/720

98.90%ile



RGMC
MUMBAI

HARKRISH JOSHI

520/720

98.54%ile



GMC
AMRAVATI

MANISH KUMAVAT

520/720

98.54%ile



GMC
NANDURBAR

PRINCE SOLANKI

520/720

98.54%ile



GMC
BULDHANA

HRISHIKESH DUBE

511/720

98.16%ile



GMC
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ALKA SINGH

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GMC
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NASHIK

KOMAL SINGH

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KNMC
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97.72%ile



IIMSR
JALNA

ALISHA SYED

502/720

97.72%ile

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Ambika Chaurasiya
Riya Thacker
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Taniya Raina
Ayush Mishra
Viraag Kothari
Khushi Bajaj
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Harshit Yadav
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Sneha Dubey
Farhan Shaikh

College

KNMC, Pune
KNMC, Pune
MIME, Talegaon
ACPM, Dhule
SMBT, Nashik
PDMC, Amravati
SMBT, Nashik
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VVPFMC, Ahilyanagar
ACPM, Dhule
ACPM, Dhule
SMBT, Nashik
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SCMC, Bihar
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TSMC, Lucknow
CMC, Lucknow

सपने नहीं हकीकत बुनते है,
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Near Railway Station,
Mira Road (E)

 8652 373 373