

47
YEARS
OF EXCELLENCE



NARAYANA
IIT-JEE/NEET/FOUNDATION

NEET (UG) **2026**

CHEMISTRY

PAPER CODE - 12

NARAYANA NATIONAL RESULT

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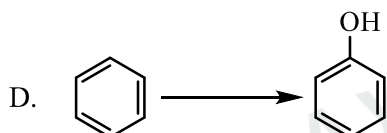
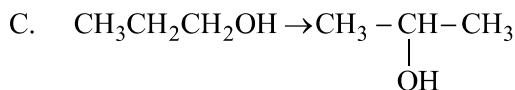
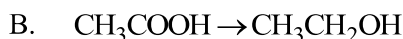
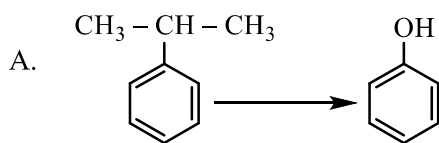
CHEMISTRY

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CHEMISTRY

46. Match List-I with List II:

List-I



List-II

I. (i) oleum; (ii) NaOH; (iii) H^+

II. (i) O_2 ; (ii) H_2O , H^+ ; (iii) H^+

III. (i) CH_3OH , H^+ ; (ii) H_2 , catalyst

IV. (i) conc. H_2SO_4 , \triangle ; (ii) $\text{H}^+ / \text{H}_2\text{O}$

Choose the correct answer from the options given below:

(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

Ans. 4

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



(1) $\text{C}_2\text{H}_5 - \text{N} = \text{N} - \text{OH}$

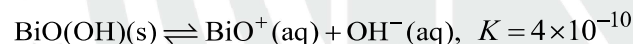
(2) $\text{C}_2\text{H}_5\text{OH}$

(3) $\text{C}_2\text{H}_5\text{NO}_2$

(4) $\text{C}_2\text{H}_5\text{NH}_2$

Ans. 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:



(Given : $\log 2 = 0.3010$)

(1) 4.699

(2) 8.714

(3) 9.301

(4) 5.286

Ans. 3

49. When 1 dm^3 of CO_2 gas is passed over hot coke, the volume of gaseous mixture after complete reaction at STP becomes 1.4 dm^3 . The composition of the gaseous mixture at STP is:

(1) 0.6 dm^3 of CO, 0.8 dm^3 of CO_2

(2) 0.8 dm^3 of CO, 0.8 dm^3 of CO_2

(3) 0.8 dm^3 of CO, 0.6 dm^3 of CO_2

(4) 0.6 dm^3 of CO, 0.4 dm^3 of CO_2

Ans. 3

50. Match List-I with List II:

List-I (Quantum Number)

List-II (Orbital)

	'n'	'l'
A.	2	1
B.	4	0
C.	5	3
D.	3	2

I. $3d$

II. $2p$

III. $4s$

IV. $5f$

Choose the correct answer from the options given below:

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

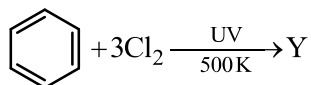
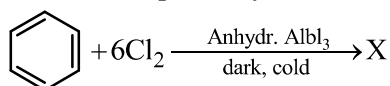
(2) A-I, B-II, C-III, D-IV

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

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

Ans. 1

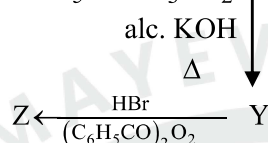
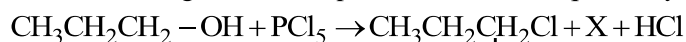
51. The number of chlorine atoms present in the organic products X and Y of the following reactions, respectively, are



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

Ans. 2

52. In the following reaction sequence, X and Z, respectively are :



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

Ans. 4

53. Match List-I with List II:

List-I
(transition metal/
compound/complex)

- A. V_2O_5
B. Fe
C. PdCl_2
D. Ni complex

List-II
(Catalytic Role)

- I. Preparation of ammonia from N_2 / H_2 mixture
II. Polymerisation of alkynes
III. Preparation of H_2SO_4 from SO_2
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

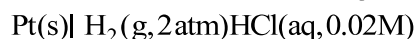
Ans. 4

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.

Ans. 2

55. Calculate emf of the half cell given below:



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

$$\left(\text{Given: } \frac{2 \cdot 303RT}{F} = 0.059, \log 2 = 0.3010\right)$$

- (1) 1.109 V (2) 0.035 V
(3) -0.035 V (4) -0.109 V

Ans. 1

56. Match List-I with List II:

List-I (Order of reaction)

- A. Zero order
- B. First order
- C. Second order
- D. Third order

List-II (Under of rate constant)

- I. $\text{mol}^{-1} \text{L s}^{-1}$
- II. $\text{mol}^{-2} \text{L}^2 \text{s}^{-1}$
- III. s^{-1}
- IV. $\text{mol}^{-1} \text{L}^{-1} \text{s}^{-1}$

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.

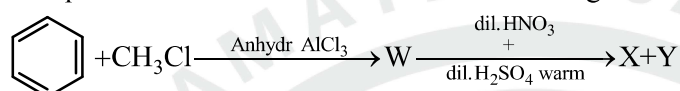
Ans. 3

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

- (1) 2.84 BM
- (2) 5.92 BM
- (3) 4.90 BM
- (4) 3.87 BM

Ans. 1

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

Ans. 3

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}

Ans. 3

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-}

Ans. 1

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

Ans. 2

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 $\text{C} \gg \text{Si} > \text{Ge} \approx \text{Sn}$.

Ans. 3

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.

Ans. 4

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

Ans. 3

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

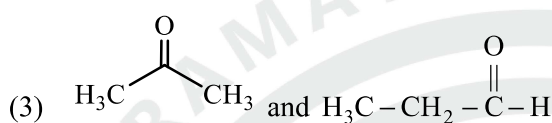
(Given: Molar mass of urea : 60 g mol^{-1} , $N_A : 6.022 \times 10^{23} \text{ particles mol}^{-1}$)

- (1) 2.168×10^{23} (2) 2.168×10^{22}
(3) 1.084×10^{22} (4) 1.084×10^{23}

Ans. 1

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

- (1) $\text{CH}_3\text{CH}_2\text{CH}_2\text{OH}$ and $\text{CH}_3-\text{CH}(\text{OH})-\text{CH}_3$
(2) $\text{CH}_3\text{OCH}_2\text{CH}_2\text{CH}_3$ and $\text{CH}_3\text{CH}_2\text{OCH}_2\text{CH}_3$



- (4) $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$ and $(\text{CH}_3)_2\text{CHCH}_2\text{CH}_3$

Ans. 2

67. Identify the incorrect statement from the following:

- (1) $\text{P}(\text{C}_2\text{H}_5)_3$ and $\text{As}(\text{C}_6\text{H}_5)_3$ form $d\pi-d\pi$ bond with transition metals.
(2) Nitrogen can form $d\pi-p\pi$ bond with oxygen.
(3) Nitrogen can form $p\pi-p\pi$ multiple bonds with itself.
(4) Phosphorus, arsenic and antimony show catenation property.

Ans. 2

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

Ans. 3

69. Match List I with List II :

List-I

- A. C_2H_4
B. C_2H_6
C. CH_4
D. NH_3

List-II

- I. 3σ bond, 2π bonds
II. 3σ bond, one lone pair
III. 4σ bond
IV. 5σ bond, 1π 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-I, D-I
(3) A-I, B-II, C-IV, D-III (4) A-II, B-III, C-I, D-IV

Ans. 1

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

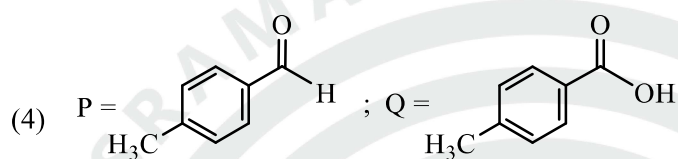
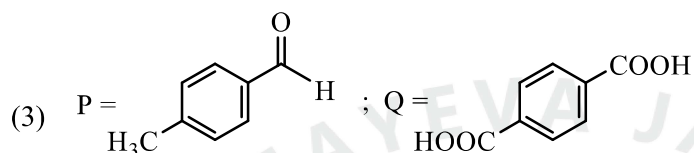
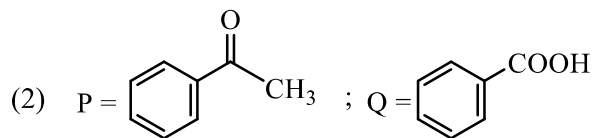
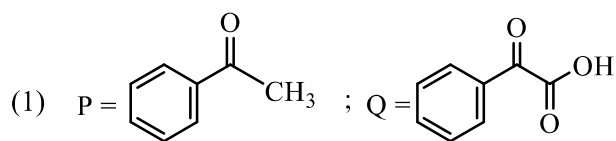
Ans. 2

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

- (1) CO and H_2 (2) CO and H_2O
(3) CO_2 and H_2O (4) CO_2 and H_2

Ans. 1

72. Compound P(C₈H₈O) 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. NaHCO₃. Compounds P and Q, respectively, are:



Ans. 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 g mol⁻¹; 1 F = 96487 C mol⁻¹).

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

Ans. 4

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

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

Ans. 1

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.

Ans. 3

76. Identify the correct statements:

- A. The molality of 2.5g of ethanoic acid (Molar mass 60 g mol⁻¹) in 75g of benzene solution is 0.556 m.
B. The molarity of a solution containing 5g 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 $x_B = \frac{n_B}{n_A + n_B}$.

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

Ans. 2

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.

Ans. 1

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

Ans. 3

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.

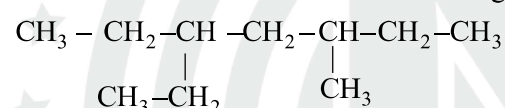
Ans. 2

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

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

Ans. 1

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

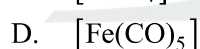
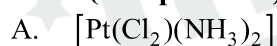


- (1) 2,4-diethylhexane
- (2) 3,5-diethylhexane
- (3) 3-ethyl-5-methylheptane
- (4) 3-methyl-5-ethylheptane

Ans. 3

82. Match List I with List II :

List-I (Complex / ion)



List-II (Shape / geometry)

I. Octahedral

II. Trigonal bipyramidal

III. Square planar

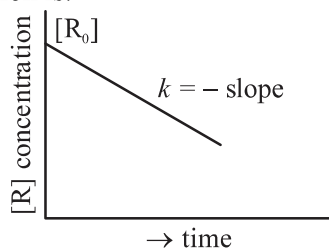
IV. Tetrahedral

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

Ans. 4

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:



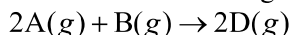
- (1) 0
- (2) 1
- (3) 2
- (4) 2.5

Ans. 1

84. Which one of the following is an ambidentate ligand ?
 (1) Ethylenediaminetetraacetate ion (2) Oxalate
 (3) Ethane-1,2-diamine (4) Thiocyanate

Ans. 4

85. Consider the following reaction :



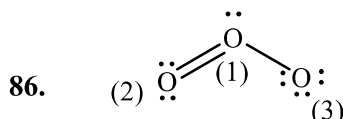
$$\Delta U^\ominus = -10 \text{ kJ mol}^{-1} \text{ and } \Delta S^\ominus = -44 \text{ JK}^{-1} \text{ at } 298 \text{ K.}$$

Identify the correct option with ΔG^\ominus 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

Ans. 2



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) $+1, 0, -1$

Ans. 2

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) $\text{H}_2\text{O}(g) + \text{CO}(g) \rightleftharpoons \text{H}_2(g) + \text{CO}_2(g)$

Ans. 3

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

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

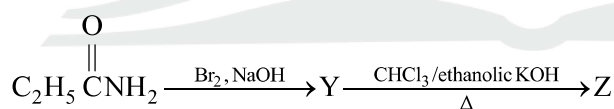
The energy of activation in kcal mol^{-1} for the reaction is:

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

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

Ans. 4

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



X and Z, respectively, are :

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

Ans. 4

90. Match List I with List II :

List-I (Complex)

- A. $[\text{Pt}(\text{NH}_3)_2\text{Cl}_2]$
 B. $[\text{Co}(\text{en})_3]$
 C. $[\text{Co}(\text{NH}_3)_5\text{NO}_2]\text{Cl}_2$
 D. $[\text{Cr}(\text{H}_2\text{O})_6]\text{Cl}_3$

List-II (Type)

- I. Optical
 II. Solvate
 III. Geometrical
 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

Ans. 3

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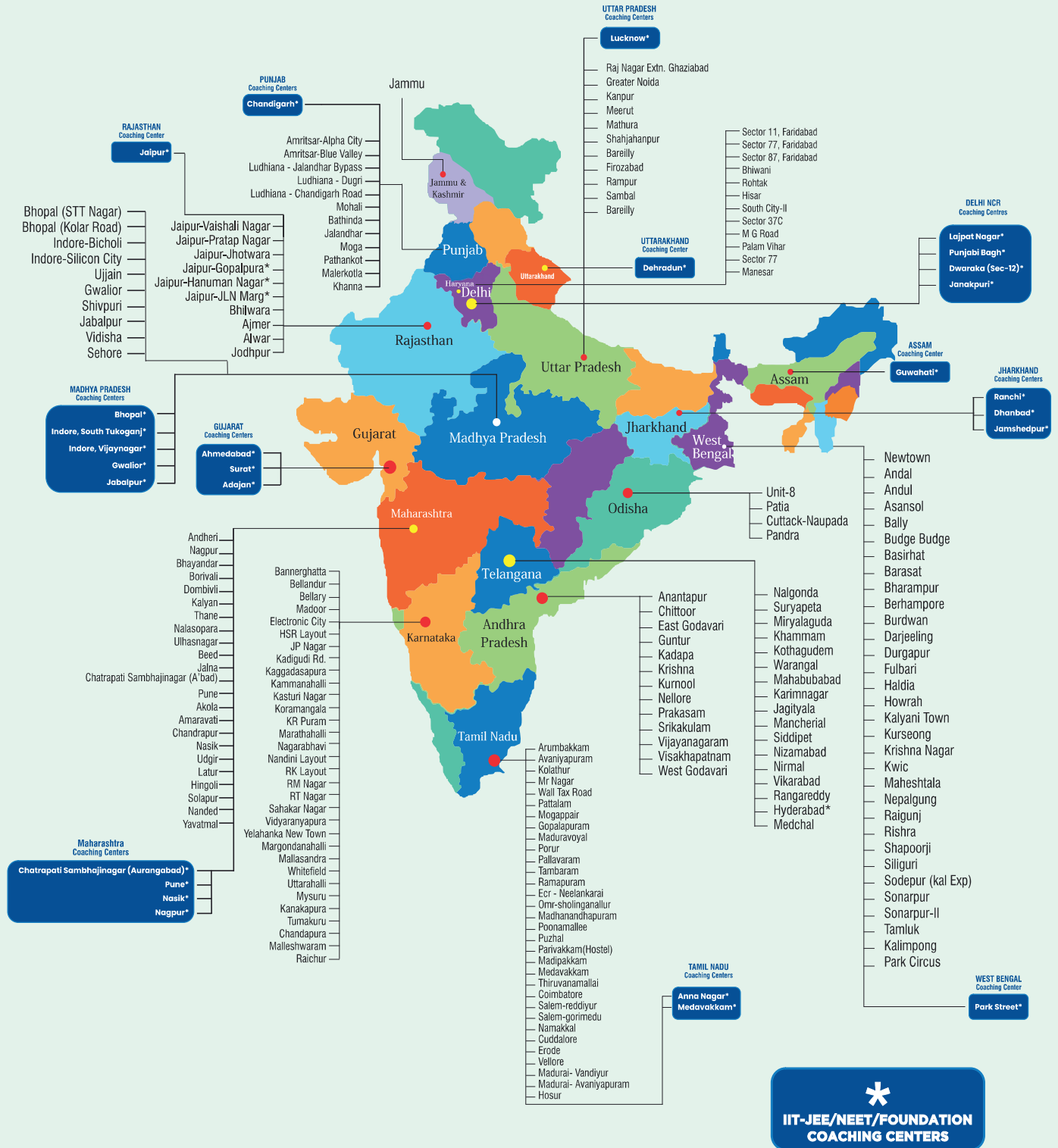
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