

IIT/NIT | NEET / AIIMS | NTSE / IJSO / OLYMPIADS

कोटा का रिपिटर्स (12th पास) का सर्वश्रेष्ठ रिजल्ट देने वाला संस्थान





AIR 82 Sarthak Behera



AIR 120 Pankaj



AIR 146 Varun Goyal



AIR 148 Mukul Kumar

Total Selection 709/2084 = **34.02%**

JEE MAIN 2019 RESULT



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AIR 85 Anuj Chaudhary



AIR 96 Shubham Kumar



AIR 120 Eeshaan Jain

Students Qualified for JEE ADVANCED 2288/3316 = 68.99%



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CRITERIA FOR DIRECT ADMISSION IN STAR BATCHES

V STAR BATCH XII Pass (JEE M+A)

ELIGIBILITY

JEE Main'19 %tile > 98%tile

JEE Advanced'19 Rank (Gen.) < 15,000

P STAR BATCH XI Moving (JEE M+A)

NTSE Stage-1 Qualified or NTSE Score > 160

ELIGIBILITY

100 marks in Science or Maths in Board Exam J STAR BATCH XII Pass (NEET/AIIMS)

ELIGIBILITY

NEET'19 Score > 450 Marks

AIIMS'19 %tile > 98%tile

H STAR BATCH
XI Moving (NEET/AIIMS)

NTSE Stage-1 Qualified or NTSE Score > 160

100 marks in Science or Maths in Board Exam

Scholarship Criteria

| JEE Main Percentile | SCHOLARSHIP+ STIPEND | JEE Advanced Rank | SCHOLARSHIP+ STIPEND |
|------------------------|-------------------------|----------------------------|--------------------------|
| 98 - 99 | 100% | 10000-20000 | 100% |
| Above 99 | 100% + ₹ 5000/ month | Under 10000 | 100% + ₹ 5000/ month |
| NEET 2019 Marks | SCHOLARSHIP+ STIPEND | NTSE STAGE-1 2019 Marks | SCHOLARSHIP+ STIPEND |
| 450 | 100% | 160-170 | 100% + ₹ 2000/ month |
| 530-550 | 100% + ₹ 2000/ month | 171-180 | 100% + ₹ 4000/month |
| 550-560 | 100% + ₹ 4000/month | 171-100 | 100 % + \ 4000/III0IIIII |
| 560 | 100% + ₹ 5000/month | 180+ | 100% + ₹ 5000/month |

FEATURES:

- Batch will be taught by NV Sir & HOD's Only.
- Weekly Quizes apart from regular test.
- Under direct guidance of NV Sir.
- Residential campus facility available.
- 20 CBT (Computer Based Test) for better practice.
- Permanent academic coordinator for personal academic requirement.
- Small batch with only selected student.
- All the top brands material will be discussed.

MOTION[™] Nurturing potential through education

CHEMISTRY [JEE ADVANCED - 2019] PAPER - 2

Section 1 (Maximum Marks: 32)

- This section contains **EIGHT (08)** questions.
- Each question has **FOUR** options. **ONE OR MORE THAN ONE** of these four option(s) is(are) correct answer(s).
- For each question, choose the option(s) corresponding to (all) the correct answer(s).
- Answer to each question will be evaluated according to the following marking scheme

Full Marks : +4 If only (all) the correct option(s) is(are) chosen

Partial Marks : +3 If all the four options are correct but ONLY three options are chosen Partial Marks : +2 If three or more options are correct but ONLY two options are chosen

and both of which are correct;

Partial Marks : +1 If two or more options are correct but ONLY one option is chosen and

it is a correct option

Zero Marks : 0 If none of the options is chosen (i.e. the question is unanswered):

Negative Marks : -1 In all other cases

• For example, in a question, if (A), (B) and (D) are the ONLY three options corresponding to correct answers, then

choosing ONLY (A), (B) and (D) will get +4 marks;

choosing ONLY (A) and (B) will get +2 marks;

choosing ONLY (A) and (D) will get +2 marks,

choosing ONLY (B) and (D) will get +2 marks:

choosing ONLY (A) will get +1 mark;

choosing ONLY (B) will get +1 mark;

choosing ONLY (D) will get +1 mark;

choosing no option (i.e. the question is unanswered) will get 0 marks; and choosing any other combination of options will get −1 mark

1. Which of the following reactions produce(s) propane as a major product?

(A)
$$H_3C$$
 COONa + H_2O electrolysis

(B)
$$\underset{H_2C}{\overset{Br}{\swarrow}}$$
 Br $\overset{Zn}{\longrightarrow}$

(C)
$$H_3C$$
 CI $Zn, dil. HCl$

(D) H₃C COONa NaOH, CaO,
$$\Delta$$

Ans. C,D

Sol. (i)
$$CH_3-CH_2-CH_2-C-O^-Na^+ \xrightarrow{Electrolysis} n$$
-hexane

(ii)
$$CH_3-CH-CH_2 \xrightarrow{Zn} CH_3-CH=CH_2$$

(iii)
$$CH_3-CH_2-CH_2-CI \xrightarrow{Zn+HCI} CH_3-CH_2-CH_3$$

(iv)
$$CH_3-CH_2-CH_2-COO^-Na^+ \xrightarrow{NaOH + CaO} CH_3-CH_2-CH_3$$



- 2. With reference to aqua regia, choose the correct option(s)
 - (A) The yellow colour of agua regia is due to the presence of NOCI and Cl₃
 - (B) Reaction of gold with aqua regia produces an anion having Au in +3 oxidation state
 - (C) Reaction of gold with aqua regia produces NO₂ in the absence of air
 - (D) Aqua regia is prepared by mixing conc. HCl and conc. HNO_3 in 3:1 (v/v) ratio

Ans. A,B,D

3HCl + HNO₃ → NOCl + 2H₂O + 2Cl Sol. (i) $CI + CI \longrightarrow CI_{2}$

- $Au + 3Cl \longrightarrow AuCl_3$ (ii) AuCl₃ + HCl ---> HAuCl₄
- 3. Choose the correct option(s) for the following reaction sequence

CHO
$$\frac{\text{(i) } H_{9}^{2^{+}}, \text{ dil. } H_{2}SO_{4}}{\text{(ii) } AgNO_{3}, \text{ NH}_{4}OH} \xrightarrow{\text{(ii) } SOCl_{2}} Q \xrightarrow{\text{(ii) } SOCl_{2}} R \xrightarrow{\text{Conc. } HCl} SOCH_{2}$$

$$\frac{\text{(iii) } Zn-Hg}{\text{(iii) } Zn-Hg, \text{ conc. } HCl} \xrightarrow{\text{(iii) } AlCl_{3}} R \xrightarrow{\text{Conc. } HCl} SOCH_{2}$$

Consider Q, R and S as major products.

Q

R

S

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Ans. B,C

- 4. The ground state energy of hydrogen atom is -13.6 eV. Consider an electronic state ψ of He⁺ whose energy, azimuthal quantum number and magnetic quantum number are -3.4 eV, 2 and 0, respectively. Which of the following statement(s) is(are) true for the state ψ ?
 - (A) The nuclear charge experienced by the electron in this state is less than 2e, where e is the magnitude of the electronic charge
 - (B) It has 3 radial nodes
 - (C) It is a 4d state
 - (D) It has 2 angular nodes

Ans. C or C, D

Sol.
$$E_{n,2} = -3.4 \text{ eV} = -13.6 \times \frac{4}{n^2}$$

$$I = 2 \qquad \qquad \frac{1}{n^2} = 13.6 \times \frac{1}{4} \times \frac{1}{13.6 \times 4}$$

$$m = 0 \qquad \qquad n = 4; I = 2$$

No. of Radial Node = n - l - 1 = 4 - 2 - 1 = 1

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5. Choose the correct option(s) that give(s) an aromatic compound as the major product

$$(C) \stackrel{\text{NaOMe}}{\longrightarrow}$$

(D) +
$$Cl_2$$
 (excess) $\xrightarrow{UV, 500 \text{ K}}$

Aromatic

Ans. B,C

Sol. (i)
$$\stackrel{\text{Br}}{\bigsqcup}$$
 $\stackrel{\text{NaOC}_2\text{H}_5}{\bigsqcup}$ $\stackrel{\text{Non-Aromatic}}{\bigsqcup}$

$$\begin{array}{c} \text{Br Br} \\ \text{I I} \\ \text{CH}_3\text{-CH-CH}_2 \\ \hline \text{(ii) NaNH}_2 \end{array} \xrightarrow{\text{(i) alc. KOH}} \text{CH}_3\text{-C} \equiv \text{CH} \xrightarrow{\text{Red hot}} \text{CH}_3 \\ \hline \text{CH}_3 \xrightarrow{\text{CH}_3} \text{CH}_3 \end{array}$$

(iv)
$$+ Cl_2 \text{ (excess)} \xrightarrow{UV} Cl Cl$$

Non-Aromatic

6. Consider the following reactions (unbalanced)

 $Zn + hot conc. H₂SO₄ \rightarrow G + R + X$

 $Zn + conc. NaOH \rightarrow T + Q$

 $G + H_2S + NH_4OH \rightarrow Z$ (a precipitate) + X + Y

Choose the correct option(s)

(A) R is a V-shaped molecule

(B) The oxidation state of Zn in T is +1

(C) Bond order of Q is 1 in its ground state (D) Z is dirty white in colour

Ans. A,C,D

Sol. (i)
$$Zn + 2H_2SO_4 \longrightarrow ZnSO_4 + SO_2 + 2H_2O$$

hot conc. "G"

hot conc. "G"

(ii)
$$Zn + Conc. NaOH \longrightarrow Na_2ZnO_2 + H_2$$
"T

(iii)
$$ZnSO_4 + H_2S + NH_4OH \longrightarrow ZnS +$$

(G.R. of IV group) "Z" (dirty white ppt)

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- **7.** Choose the correct option(s) from the following
 - (A) Teflon is prepared by heating tetrafluoroethene in presence of a persulphate catalyst at high pressure
 - (B) Natural rubber is polyisoprene containing trans alkene units
 - (C) Nylon-6 has amide linkages
 - (D) Cellulose has only α -D-glucose units that are joined by glycosidic linkages

Ans. A,C

Sol.

$$CH_2-C \equiv C-CH_2$$

(i) H_2 , Pd, $BasO_a$, quinoline

8. The cyanide process of gold extraction involves leaching out gold from its ore with CN⁻ in the presence of Q in water to form R. Subsequently R is treated with T to obtain Au and Z. Choose the correct option(s)

(A) Z is $[Zn(CN)_4]^{2-}$ (B) R is $[Au(CN)_4]^{-}$ (C) T is Zn (D) Q is O₂

Ans. A,C,D

Sol.

(i) Au + CN⁻ + O₂
$$\longrightarrow$$
 (Au(CN)₂)⁻ + OH⁻
+H₂O "Q" "R"

(ii) $[Au(CN)_2]^- + Zn \longrightarrow [Zn(CN)_4]^{2^-} + Au$ $"R" \qquad "T" \qquad "Z"$

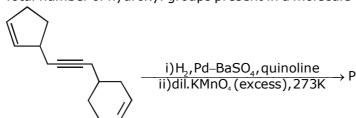
SECTION 2 (Maximum Marks: 18)

- This section contains SIX (06) questions The answer to each question is a NUMERICAL VALUE.
- For each question, enter the correct numerical value of the answer using the mouse and the onscreen virtual numeric keypad in the place designated to enter the answer. If the numerical value has more than two decimal places, truncate/round-off the value to TWO decimal places
- Answer to each question will be evaluated according to the following marking scheme:

Full Marks : +3 If ONLY the correct numerical value is entered;

Zero Marks : 0 In all other cases

1. Total number of hydroxyl groups present in a molecule of the major product P is



Ans. 6

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Total number of cis N-Mn-Cl bond angles (that is, Mn-N and Mn-Cl bonds in cis positions) present in a molecule of cis-[Mn(en),Cl₂] complex is (en = NH₂CH₂CH₂NH₂)

Ans. 6

Sol. N N CI

The amount of water produced (in g) in the oxidation of 1 mole rhombic sulphur by conc. HNO_3 to a compound with the highest oxidation state of sulphur is (Given data. Molar mass of water = 18 g mol^{-1})

Ans. 288

Sol. Amount of water produced $S_8 + 48 \text{HNO}_3 \longrightarrow 8 \text{H}_2 \text{SO}_4 + 16 \text{H}_2 \text{O} + 48 \text{NO}_2(g)$ Moles of $\text{H}_2 \text{O}$ Produced = 16 mol Mass of $\text{H}_2 \text{O}$ produced = (16 mol) × (18 amu) = 288 gm

4. The decomposition reaction $2N_2O_5(g) \xrightarrow{\Delta} 2N_2O_4(g) + O_2(g)$ is started in a closed cylinder under isothermal isochoric condition at an initial of 1 atm. After Y x 10^3 s, the pressure inside the cylinder is found to be 1.45 atm. If the rate constant of the reaction is 5 x 10^{-4} s⁻¹, assuming ideal gas

Ans. 2.3 or 4.6

Y = 2.3

Sol.
$$2N_2O_5(g) \xrightarrow{\Lambda} 2N_2O_4(g) + O_2(g)$$

 $t = 0 \quad 1 \text{ atm}$
't' $1-2x \quad 2x \quad x$
 $1+x = 1.45 \Rightarrow x = 0.45 \text{ atm}$
 $2 \times Y \times 10^3 \times 5 \times 10^{-4} = In \left[\frac{1}{0.1}\right]$

behavior, the value of Y is

5. Total number of isomers, considering both structural and stereoisomers, of cyclic ethers with the molecular formula C_4H_8O is

Ans. 10

Sol.
$$O = (R+S)CH_3$$
 $O = (R+S)CH_2-CH_3$ $O = (R+S)CH_2-CH_3$ $O = (R+S)CH_2-CH_3$ $O = (R+S)CH_2$ $O = (R+S)CH_3$ $O = (R$

6. The mole fraction of urea in an aqueous urea solution containing 900 g of water is 0.05. If the density of the solution is 1.2 g cm⁻³, the molarity of urea solution is (Given data: Molar masses of urea and water are 60 g mol⁻¹ and 18 g mol⁻¹, respectively)

Ans. 2.98

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Sol.
$$X_{ureareq} = \frac{1}{20}$$
 $d_{sol.} = 1.2 \text{ g / ml.}$

$$\frac{1}{20} = \frac{n_{\text{urea}}}{n_{\text{urea}} + 50} \Rightarrow 50 = 19 \, n_{\text{urea}} \qquad \qquad n_{\text{urea}} = \frac{50}{19} \, \text{mol}$$

$$n_{sol.} = \frac{1057.90}{1.2} mI \qquad \qquad Molarity = \frac{\frac{50}{19}}{\frac{1057.90}{1.2}} \times 1000 = \frac{50,000 \times 1.2}{19 \times 1057.90}$$

$$= \frac{60,000}{19 \times 1057.90} = 2.98 \text{ or } 2.99$$

SECTION 3 (Maximum Marks: 12)

- This section contains Two (02) List-Match sets,
- Each List-Match set has Two (02) Multiple Choice Questions.
- Each List-Match set has two lists. List-I and List-II
- **List-I** has **Four** entries (I), (II), (III) and (IV) and List-II has six entries (P), (Q), (R), (S), (T) and (U).
- FOUR options are given in each Multiple Choice Question based on List-I and List-II and **ONLY ONE** of these four options satisfies the condition asked in the Multiple Choice Question.
- Answer to each question will be evaluated according to the following marking scheme:
 Full Marks: +3 If ONLY the option corresponding to the correct combination is chosen;
 Zero Marks: 0 If none of the options is chosen (i.e., the question is unanswered)
 Negative Marks: -1 In all other cases.
- **1.** Answer is following by appropriately matching the lists based on the information given in the paragraph

Consider the Bohr's model of a one-electron atom where the electron moves around the nucleus. In the following, List-I contains some quantities for the n^{th} orbit of the atom and List-II contains options showing how they depend on n.

(I) Radius of the nth orbit $(P) \propto n^{-2}$

(II) Angular momentum of the electron in the n^{th} orbit (Q) $\propto n^{-1}$

(III) Kinetic energy of the electron in the n^{th} orbit (R) $\propto n^0$

(IV) Potential energy of the electron in the n^{th} orbit (S) $\propto n^{1}$

(T) \propto n²

(U) $\propto n^{1/2}$

Which of the following options has the correct combination considering List-I and List-II?

(A) (II), (R) (C) (I), (T)

(B) (I), (P) (D) (II), (Q)

Ans. C



Sol.

$$A R_{n,z}$$

$$P \propto n^{-2}$$

$$Q \propto n^{\scriptscriptstyle -1}$$

(U) $\propto n^{1/2}$

(T)
$$\propto$$
 n²

$$R_{n, Z} \propto n^2 \Rightarrow (I) - T$$

Avg. Momentum
$$\propto n \Rightarrow (II)$$
 - S

$$KE \propto \frac{1}{n^2} \Rightarrow (III) - P$$

$$PE \propto \frac{1}{n^2} \Rightarrow (IV) - P$$

2. Answer is following by appropriately matching the lists based on the information given in the paragraph Consider the Bohr's model of a one-electron atom where the electron moves around the nucleus. In the following, List-I contains some quantities for the nth orbit of the atom and List-II contains options showing how they depend on n.

(I) Radius of the nth orbit

(P)
$$\propto n^{-2}$$

(II) Angular momentum of the electron in the nth orbit

(Q)
$$\propto n^{-1}$$

(III) Kinetic energy of the electron in the nth orbit

(IV) Potential energy of the electron in the nth orbit

(S)
$$\propto n^1$$

(T)
$$\propto n^2$$

(U)
$$\propto n^{1/2}$$

Which of the following options has the correct combination considering List-I and List-II?

Ans. Sol.

$$A R_{n,7}$$

$$P \propto n^{-2}$$

 $O \propto n^{-1}$

В

(T)
$$\propto$$
 n²

(U)
$$\propto n^{1/2}$$

$$R_{n, z} \propto n^2 \Rightarrow (I) - T$$

Avg. Momentum
$$\propto$$
 n \Rightarrow (II) - S

$$KE \propto \frac{1}{n^2} \Rightarrow (III) - P$$

$$PE \propto \frac{1}{n^2} \Rightarrow (IV) - P$$



3. Answer is following by appropriately matching the lists based on the information given in the paragraph

List - I includes starting materials and reagents of selected chemical reactions. List - II gives structures of compounds that may be formed as intermediate products and/or final products from the reactions of List-I $\,$

List - I

$$(I) \begin{picture}(100,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0$$

(III)
$$CI$$

$$CO_{2}CH_{3}$$
 $i) KCN$

$$ii) H_{3}O^{+}, \Delta$$

$$iii) LIAIH_{4}$$

$$iv) conc. H_{2}SO_{4}$$

$$\text{(T)} \overbrace{\hspace{1cm}}^{\text{CO}_2\text{H}}$$

Which of the following options has correct combination considering List-I and List-II?

(A) (III), (T), (U)

(B) (IV), (Q), (U)

(C) (III), (S), (R)

(D) (IV), (Q), (R)

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Ans. D

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$$CH_{2}-C \equiv N$$

$$CH_{2}-C-H$$

$$CH_{2}-CH=CH_{2} \xrightarrow{(i) O_{3}/Zn/H_{2}O} CH_{2}-C-H$$

$$C-OH \qquad COH \qquad COH$$

(R)

(II)

$$CH_{2}$$

$$CH_{2}$$

$$CH_{2}$$

$$CONC. H_{2}SO_{4}$$

$$C-OH$$

$$C-OH$$

$$C = CONC. H_{2}SO_{4}$$

$$C = CONC.$$

(III)
$$CH_2-CI$$

$$CH_2-CI$$

$$CH_2-C\equiv N$$

$$CH_2-C\equiv N$$

$$CH_2-C=N$$

$$CH_$$

$$CH_2$$
 CH_2
 CH_2



(IV)
$$\begin{array}{c}
O \\
C - O - CH_3 \\
O \\
CH_3 - C - OCH_3
\end{array}$$

$$\begin{array}{c}
(i) \text{ LiAlH}_4 \\
(i) \text{ CH}_4
\end{array}$$

$$\begin{array}{c}
CH_2 - OH \\
CH_2 - CH_2 - OH
\end{array}$$

$$\begin{array}{c}
CH_2 - CH_2 - OH
\end{array}$$

$$\begin{array}{c}
CH_2 - CH_2 - CH_2
\end{array}$$

$$\begin{array}{c}
CH_2 - CH_2
\end{array}$$

$$\begin{array}{c}
CH_2 - CH_2
\end{array}$$

$$\begin{array}{c}
CH_2 - CH_2
\end{array}$$

4. Answer is following by appropriately matching the lists based on the information given in the paragraph List - I includes starting materials and reagents of selected chemical reactions. List - II gives structures of compounds that may be formed as intermediate products and/or final products from the reactions of List-I

List - I

$$(I) \begin{picture}(100,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0$$

List - II

(T)
$$CO_2H$$

(B) (I), (S), (Q), (R) (D) (II), (P), (S), (T)

(A) (I), (Q), (T), (U) (C) (II), (P), (S), (U)

Ans

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$$CH_{2} CH_{2} CH_{2}$$

$$\begin{array}{c} CH_2\text{-}CH=CH_2 \\ C-OH \\ 0 \end{array} \xrightarrow{\text{(i) O}_3/\text{Zn/H}_2O} \begin{array}{c} O \\ || \\ CH_2\text{-}C-H \\ || \\ O \end{array} \\ \begin{array}{c} CH_2\text{-}C-H \\ || \\ O \end{array} \\ \begin{array}{c} CH_2\text{-}C-H \\ || \\ O \end{array}$$

(II)
$$CH_{2} CH_{2} CH_{2} CH_{2} COnc. H_{2}SO_{4}$$

$$COnc. H_{2}SO_{4} CH_{2} CH_{2} CH_{2}OH$$

$$COnc. H_{2}SO_{4} CH_{2} CH_{2}OH$$

$$COnc. H_{2}SO_{4} CH_{2} CH_{2}OH$$

$$COnc. H_{2}SO_{4} CH_{2}OH$$

(III)
$$CH_2-CI$$
 CH_2-CI
 $CH_2-C=N$
 $CH_2-C=N$
 CH_2-COH_3
 CH_2-COH_3

$$CH_2$$
 CH_2
 CH_2

$$\begin{array}{c}
\stackrel{\text{ }}{\bigcirc} & \stackrel{\text{ }}$$

(IV)



Based on JEE Advanced'19

| MARKS | FEE (After Scholarship) |
|------------|--------------------------------|
| 140 above | Drona Residential Program Free |
| 120 to 139 | ₹0 |
| 100 to 120 | ₹ 14,500 |
| 90 to 99 | ₹ 29,000 |
| 80 to 89 | ₹ 43,500 |
| 69 to 79 | ₹ 58,000 |
| 40 to 69 | ₹ 87,000 |

^{*}Scholarship Applicable at Kota Center Only

Based on JEE Main'19

| JEE Main Percentile | English | Hindi | |
|----------------------|--------------------------------|------------|--|
| JEE Maill Percentile | Fees (After Scholarship) | | |
| 99 & Above | Drona Residential Program Free | | |
| 97.5 To 99 | ₹0 | ₹0 | |
| 97 To 97.5 | ₹ 14,500 | ₹ 14,500 | |
| 96.5 To 97 | ₹ 29,000 | ₹ 29,000 | |
| 96 To 96.5 | ₹ 58,000 | ₹ 58,000 | |
| 95.5 To 96 | ₹ 65,250 | ₹ 65,250 | |
| 95 To 95.5 | ₹ 72,500 | ₹ 72,500 | |
| 93 To 95 | ₹ 87,000 | ₹ 87,000 | |
| 90 To 93 | ₹ 1,01,500 | ₹ 94,250 | |
| 85 To 90 | ₹ 1,08,750 | ₹ 1,01,500 | |
| 80 To 85 | ₹ 1,16,000 | ₹ 1,08,750 | |
| 75 To 80 | ₹ 1,30,500 | ₹ 1,23,250 | |



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