



# DR ACADEMY

DO RIGHT FOR GENUINE EDUCATION

**NELMANGALA : LTM BOYS CAMPUS**  
#2/5, NARAYANAPPA PALYA,  
DASANPURA, TUMKUR ROAD,  
BENGALURU - 560 062  
Phone : 9513330438  
8139966644 / 9980533120

#42, 100FT ROAD,  
KAMMAGONDANAHALLI,  
JALAHALLI WEST,  
BENGALURU - 560 015  
Phone : 9008030463  
9008030896 / 9513330437

HOSKOTE - MALUR ROAD,  
ISRI CROSS, KATTIGENAHALLI,  
JADIGENAHALLI HOBLI,  
BENGALURU - 562114  
Phone : 9741332998  
8147397999 / 9535527713

## KCET EXAMINATION - 2026

DATE : 24-04-2026

**MATHEMATICS**

**CODE - A1**

TIME : 10:30 AM TO 11:50 AM



### LONG TERM COACHING

1<sup>ST</sup> BATCH FOR NEET - 2027

### 5<sup>TH</sup> STARTS ON

## JUNE - 2026

## NEET - 2025 TOPPERS

 <b>607</b> MARKS AFNAAN PASHA App No. 250410602893	 <b>605</b> MARKS RAKESH KUMBAR App No. 250410893858	 <b>589</b> MARKS M LEENA REDDY App No. 250410154513	 <b>588</b> MARKS JAYANTH K S App No. 250410619327
 <b>581</b> MARKS CHANDANA REDDY N G App No. 250410232370	 <b>581</b> MARKS BHAGYASHRI PATTAR App No. 250410153733	 <b>579</b> MARKS KOTTAPALLI ABDUL KALAM App No. 250410865706	 <b>577</b> MARKS RAJMANE TRUPTI RAHUL App No. 250410324087
 <b>575</b> MARKS CHANDRIKA SAJJANAR App No. 250410695592	 <b>572</b> MARKS VIJAY M App No. 250410629648	 <b>571</b> MARKS ANMOL SHEGUNASI App No. 250410421533	 <b>569</b> MARKS AKSHATA GURAPPA J App No. 250411245807
 <b>562</b> MARKS SAMEERAHMAD SAIFANSAB App No. 250411621485	 <b>562</b> MARKS RAKSHITH KUMAR S App No. 250410518308	 <b>560</b> MARKS M L THANMAYI ANNAPOORNA App No. 250411113373	 <b>558</b> MARKS SHREE GOURI App No. 250410227908
 <b>555</b> MARKS YOGITHA D App No. 250410071616	 <b>555</b> MARKS SURAJ K R App No. 250410942156	 <b>555</b> MARKS NAGASAI CH App No. 250410870699	 <b>553</b> MARKS PRAJWAL N S App No. 250410415967
 <b>553</b> MARKS CHINMAYI SARANGAMATH App No. 250410267618			

# NEET TOPPERS OF DR ACADEMY

NEET - 2024   JIPMER - PUDUCHERRY  <b>706</b> MARKS VENKATA SURYA TEJA GUDURI	NEET - 2021   JIPMER - PUDUCHERRY  <b>695</b> MARKS LAKSHMAN REDDY B V	NEET - 2024   BMC - BANGALORE  <b>690</b> MARKS ABHISHEK A BADAGOUDAR	NEET - 2024   BMC - BANGALORE  <b>686</b> MARKS RAHUL KADLAGOND	NEET - 2024   BIMC - BELAGAVI  <b>686</b> MARKS AMEERMUSADDIQ SANADI	NEET - 2024   KIMS - HUBLI  <b>686</b> MARKS ADITYA SAKRI
NEET - 2024   BMC - BANGALORE  <b>681</b> MARKS UTTAM SUBHASH HUKKERI	NEET - 2024   SABVIMS - BENGALURU  <b>681</b> MARKS MOHAMMED NAASIRUDEEN D	NEET - 2024   MMCRI - MYSORE  <b>680</b> MARKS SUHAS L KORABU	NEET - 2023   BMC, BANGALORE  <b>680</b> MARKS SHRAVAN REDDY C N	NEET - 2023   JIPMER PUDUCHERRY  <b>677</b> MARKS KAMALIKA CHALLA	NEET - 2022   BIMC, BELAGAVI  <b>677</b> MARKS SACHI KALLOLI
NEET - 2023   AIIMS, NAGPUR  <b>676</b> MARKS MOHAMMED SULEMAN	NEET - 2022   AIIMS, BHOPAL  <b>675</b> MARKS CHATHUSH GOWDA D S	NEET - 2022   BMC, BANGALORE  <b>672</b> MARKS CHANDANA D	NEET - 2022   BMC, BANGALORE  <b>672</b> MARKS SOWRAV B	NEET - 2024   ESIMC - BANGALORE  <b>671</b> MARKS ZOYA FIRDOUSE	NEET - 2024   MMCRI - MYSORE  <b>671</b> MARKS GIRISH J PARAMAGOND
NEET - 2024   KIMS - HUBLI  <b>670</b> MARKS SNEHA SUBHAS PATIL	NEET - 2024   KIMS - HUBLI  <b>666</b> MARKS RAJIV BHEEMASHANKAR CHOUDHARI	NEET - 2024   KIMS - HUBLI  <b>665</b> MARKS C SATHYAM	NEET - 2021   BMC, BANGALORE  <b>665</b> MARKS RASHMI PATIL	NEET - 2020   BMC, BANGALORE  <b>665</b> MARKS JAYANTH L S	NEET - 2024   GIMS - GULBARGA  <b>663</b> MARKS MOHAMMED ZEESHAN
NEET - 2024   MIMS - MANDYA  <b>662</b> MARKS POOJA U	NEET - 2024   MMCRI - MYSORE  <b>662</b> MARKS SAMPAT GOPAL GOKAK	NEET - 2022   BMC, BANGALORE  <b>662</b> MARKS SIDDHARTH A S	NEET - 2024   KIMS - HUBLI  <b>661</b> MARKS DIVYA M YALIGAR	NEET - 2023   JIPMER PUDUCHERRY  <b>661</b> MARKS SHASHANK SURAPOOR	NEET - 2024   BIMC - BELAGAVI  <b>660</b> MARKS ANMOL R KOTNAL
NEET - 2024   KIMS - BANGALORE  <b>660</b> MARKS ADHITHYA SUDARSAN GOKHALE	NEET - 2024   MMCRI - MYSORE  <b>660</b> MARKS SHRIDHAR BIRADAR	NEET - 2024   SABVIMS - BENGALURU  <b>660</b> MARKS POOJA N	NEET - 2024   SABVIMS - BENGALURU  <b>660</b> MARKS TARUN N	NEET - 2021   KIMS, HUBLI  <b>660</b> MARKS NACHIKET KEMPANNA	NEET - 2024   KIMS - HUBLI  <b>657</b> MARKS SINDHU VADAVADI
NEET - 2024   MIMS - MANDYA  <b>657</b> MARKS S SUHAS	NEET - 2024   SABVIMS - BENGALURU  <b>657</b> MARKS SHREEHARINATH A B	NEET - 2024   GMC - SAMBHAJINAGAR  <b>656</b> MARKS PRATEEK SUBHASH TOPINATTI	NEET - 2024   KIMS - HUBLI  <b>656</b> MARKS YASEEN MULLA	NEET - 2024   MIMS - MANDYA  <b>656</b> MARKS KUSUMA M	NEET - 2021   KIMS, HUBLI  <b>656</b> MARKS NAGAVARDHAN MR
NEET - 2024   VIMS - BELLARY  <b>656</b> MARKS N POOJITHA SHREE	NEET - 2023   BMC, BANGALORE  <b>656</b> MARKS BHANU PRAKASH D M	NEET - 2021   AIIMS, HYDERABAD  <b>656</b> MARKS VARUN KAJAGAR	NEET - 2024   AIIMS, HYDERABAD  <b>655</b> MARKS AMODH NAIK	NEET - 2024   BIMC - BELAGAVI  <b>655</b> MARKS SAKSHI CHANDRASHEKHAR YALARADDI	NEET - 2024   HIMS - HASSAN  <b>655</b> MARKS NITYA REDDY C
NEET - 2024   SIMS - SHIMOGA  <b>655</b> MARKS MAHIPAL SINGH	NEET - 2024   VIMS - BELLARY  <b>654</b> MARKS NIVEDITA	NEET - 2023   BMC, BANGALORE  <b>654</b> MARKS ABHISHEK V G	NEET - 2021   BMC, BANGALORE  <b>654</b> MARKS KUMARESH HIREMATH	NEET - 2024   BIMC - BELAGAVI  <b>653</b> MARKS SIDDANAGOUDA S PATIL	NEET - 2024   KIMS - HUBLI  <b>653</b> MARKS VINDHYA B G
NEET - 2024   BIMC - BELAGAVI  <b>652</b> MARKS BHOOMIKA BAYAKOL	NEET - 2024   VIMS - BELLARY  <b>652</b> MARKS CHIRANTHAN J	NEET - 2024   VIMS - BELLARY  <b>652</b> MARKS B K V KARTHIKEYA	NEET - 2024   KIMS - HUBLI  <b>651</b> MARKS SHASHANK VALIMARAD	NEET - 2024   KIMS - HUBLI  <b>650</b> MARKS PARASHURAM KYADIGGERI	NEET - 2024   MIMS - MANDYA  <b>650</b> MARKS PREETHAM K M

**DAY & RESIDENTIAL**  
SEPARATE HOSTEL FOR BOYS & GIRLS

**LTM ADMISSIONS OPEN**

# QUESTION PAPER ANALYSIS

CHAPTER	NO. OF QUESTIONS
<b>I PUC</b>	
SETS	2
RELATIONS AND FUNCTIONS	4
TRIGONOMETRIC	1
COMPLEX NUMBERS	1
LINEAR INEQUALITIES	1
PERMUTATION AND COMBINATION	2
BINOMIAL THEOREM	0
SEQUENCES AND SERIES	2
STRAIGHT LINES	1
CONIC SECTION	1
3D-COORDINATE SYSTEM	0
LIMITS	2
STATISTICS	1
PROBABILITY	3
<b>II PUC</b>	
RELATIONS AND FUNCTIONS	1
INVERSE TRIGONOMETRIC FUNCTIONS	2
MATRICES	4
DETERMINANTS	5
CONTINUITY	1
DIFFERENTIABILITY	4
APPLICATION OF DERIVATIVES	3
INTEGRALS	5
APPLICATION OF INTEGRALS	2
DIFFERENTIAL EQUATIONS	2
VECTOR ALGEBRA	5
3D-GEOMETRY	1
LINEAR PROGRAMMING	2
PROBABILITY	2

1. If  $A = \{a, b, c, d, e, f\}$ , then the number of subsets of  $A$  which contains at least 2 elements is  
 1) 64      2) 65      3) 57      4) 59

**Ans. 3**

**Sol.** Given  $n(A) = 6$   
 $\therefore$  Number of subsets with at least 2 elements  
 $= {}^6C_2 + {}^6C_3 + \dots + {}^6C_6 = 2^6 - [{}^6C_0 + {}^6C_1]$   
 $= 64 - 7 = 57$

2. If  $A = \{1, 2, 3, 4, \dots, 10\}$ , then the number of non-empty subsets of  $A$  containing only even number is  
 1) 31      2) 32      3) 30      4) 29

**Ans. 1**

**Sol.** Given  $n(A) = 10$   
 No. of even numbers = 5.  
 $\therefore$  No. of non-empty subsets of  $A$  containing only even numbers  
 $= {}^5C_1 + {}^5C_2 + {}^5C_3 + {}^5C_4 + {}^5C_5 = 2^5 - 1 = 31$

3. The domain of the function  $\sqrt{\frac{x-7}{9-x}}$  is  
 1) (7,9)      2) [7,9)      3) [7,9]      4) (7,9]

**Ans. 2**

**Sol.** Given  $f(x) = \sqrt{\frac{x-7}{9-x}} \Rightarrow \frac{x-7}{9-x} \geq 0$   
 $\Rightarrow x-7 \geq 0, 9-x > 0$   
 Then solving  $x \geq 7, x < 9$

4. If  $n(A) = 2$  and the number of relations from set  $A$  to set  $B$  is 1024, then  $n(B)$  is  
 1) 5      2) 5      3)  $2^5$       4)  $5^2$

**Ans. 2**

**Sol.** Given  $n(A) = 2$  &  
 Number of relations from  $A$  to  $B$   
 $= 2^{n(A) \cdot n(B)} = 2^{10} \Rightarrow 2 \times n(B) = 10$   
 $n(B) = 5$

5. Probability of at least one of the events  $A$  and  $B$  occur is 0.6. If  $A$  and  $B$  occur simultaneously with probability 0.2, then  $P(\bar{A}) + P(\bar{B})$  is  
 1) 1      2) 0.8      3) 0.6      4) 1.2

**Ans. 4**

**Sol.** Given  $P(A \cup B) = 0.6, P(A \cap B) = 0.2$   
 $\therefore P(A \cup B) + P(A \cap B) = P(A) + P(B)$   
 $\therefore P(\bar{A}) + P(\bar{B}) = 1 - P(A) + 1 - P(B)$   
 $= 2 - [P(A \cup B) + P(A \cap B)] = 2 - [0.8] = 1.2$

6. The maximum value of  $\sin\left(x + \frac{\pi}{6}\right) + \cos\left(x + \frac{\pi}{6}\right)$  is attained at  $x =$   
 1)  $\frac{\pi}{2}$       2)  $\frac{\pi}{4}$       3)  $\frac{\pi}{6}$       4)  $\frac{\pi}{12}$

**Ans. 4**

**Sol.** Given  $f(x) = \sin\left(x + \frac{\pi}{6}\right) + \cos\left(x + \frac{\pi}{6}\right)$   
 $\Rightarrow f'(x) = \cos\left(x + \frac{\pi}{6}\right) - \sin\left(x + \frac{\pi}{6}\right)$   
 Let  $f'(x) = 0$  then  $\cos\left(x + \frac{\pi}{6}\right) - \sin\left(x + \frac{\pi}{6}\right) = 0$   
 $\Rightarrow \tan\left(x + \frac{\pi}{6}\right) = 1$   
 $\Rightarrow x + \frac{\pi}{6} = \frac{\pi}{4}$   
 $\Rightarrow x = \frac{\pi}{4} - \frac{\pi}{6} = \frac{\pi}{12}$   
 Also  $f''(x) = -\sin\left(x + \frac{\pi}{6}\right) - \cos\left(x + \frac{\pi}{6}\right)$   
 $\therefore f''\left(\frac{\pi}{12}\right) < 0 \Rightarrow f$  is maximum at  $x = \frac{\pi}{12}$

7. The angles of a triangle are in A.P and the greatest angle is double the least angle, then sine of the third angle is  
 1)  $\frac{\sqrt{3}}{2}$       2)  $\frac{1}{\sqrt{2}}$       3)  $\frac{1}{2}$       4) 0

**Ans. 1**

**Sol.**  $A, B, C$  are in A.P  $\Rightarrow 2B = A + C$   
 Also  $C = 2A$  ----- (1)  
 In a triangle,  $A + B + C = 180^\circ$   
 $2B = 180 - B \Rightarrow B = 60^\circ$   
 $\therefore A + C = 120^\circ$  ----- (2)  
 On solving (1) & (2)  
 We get,  $A = 40^\circ, C = 80^\circ$   
 But the third angle refers in a sequence is the middle angle, then  $\sin 60^\circ = \frac{\sqrt{3}}{2}$

8. The mean and standard deviation of 100 items are 50 and 4, respectively then the sum of all squares of the items is  
 1) 250000      2) 251600  
 3) 256100      4) 265100

**Ans. 2**

**Sol.** Given  $n = 100$

$$\bar{x} = 50 = \mu \quad \& \quad \sigma = 4$$

$$\text{Since } \sigma^2 + \mu^2 = \frac{\sum x_i^2}{n}$$

$$(16 + 2500) \cdot 100 = \sum x_i^2$$

$$\sum x_i^2 = 251600$$

9. Probability of occurrence of an event A is  $\frac{1}{2}$

and that of B is  $\frac{3}{10}$ . If A and B are mutually

exclusive, then the probability of occurrence of

neither A nor B is  
 1)  $\frac{4}{5}$       2)  $\frac{3}{5}$       3)  $\frac{2}{5}$       4)  $\frac{1}{5}$

**Ans. 4**

**Sol. Given**  $P(A) = \frac{1}{2}$ ,  $P(B) = \frac{3}{10}$

$A \cap B = \phi$  (Disjoint events)

$$P(\bar{A} \cap \bar{B}) = P(\overline{A \cup B}) = 1 - P(A \cup B)$$

$$= 1 - \left[ \frac{1}{2} + \frac{3}{10} - 0 \right] = 1 - \frac{8}{10} = 1 - \frac{4}{5} = \frac{1}{5}$$

10. Let R be the relation in the set N given by  $R = \{(a, b) : a = b - 2, b > 6\}$ . Which of the following is the correct answer?

- 1)  $(2, 4) \in R$                       2)  $(3, 8) \in R$   
 3)  $(6, 8) \in R$                       4)  $(8, 7) \in R$

**Ans. 3**

**Sol.** From given  $b = a + 2$ ,  $b > 6$

$$\text{If } (6, 8) \in R \Rightarrow a = 6, \quad b = 8$$

$$= 6 + 2 = 8$$

11.  $f(x) = (x + 1)^2$  for  $x \geq 1$ ,  $g(x)$  is a function whose graph is the reflection of the graph of  $f(x)$  in the line  $y = x$ , then  $g(x)$  is

- 1)  $-\sqrt{x} - 1$                       2)  $\sqrt{x} + 1$   
 3)  $\sqrt{x} - 1$                       4)  $\sqrt{x} - 1$

**Ans. 3**

**Sol.** Since  $g(x)$  is a function whose graph is the reflection of the graph of  $f(x)$  in the line  $y = x$ , then  $g(x)$  is inverse of  $f(x)$ .

$$f(x) = (x + 1)^2, \quad x \geq 1$$

$$\text{Let } y = (x + 1)^2$$

$$\Rightarrow \sqrt{y} = x + 1 \Rightarrow x = \sqrt{y} - 1$$

$$\therefore g(x) = \sqrt{x} - 1$$

12. If  $\sin^{-1}x + \sin^{-1}y = \frac{\pi}{2}$ , then  $x^2$  is equal to

- 1)  $1 - y^2$     2)  $1 + y^2$     3)  $\sqrt{1 - y^2}$     4)  $\sqrt{1 + y^2}$

**Ans. 1**

**Sol.**  $\sin^{-1}x = \frac{\pi}{2} - \cos^{-1}y$

$$\sin(\sin^{-1}x) = \sin\left(\frac{\pi}{2} - \cos^{-1}y\right)$$

$$\Rightarrow x = \cos(\cos^{-1}y)$$

$$\Rightarrow x = \sqrt{1 - y^2} \Rightarrow x^2 = 1 - y^2$$

13.  $\tan^{-1}\left(\frac{1}{1+1 \times 2}\right) + \tan^{-1}\left(\frac{1}{1+2 \times 3}\right) + \dots$

$$\dots\dots\dots + \tan^{-1}\left(\frac{1}{1+n(n+1)}\right) =$$

- 1)  $\tan^{-1}\left(\frac{n}{n+2}\right)$                       2)  $\tan^{-1}\left(\frac{n+1}{n}\right)$

- 3)  $\tan^{-1}\left(\frac{n}{n+1}\right)$                       4)  $\tan^{-1}\left(\frac{n+2}{n}\right)$

**Ans. 1**

**Sol.**

$$\tan^{-1}\left(\frac{2-1}{1+2 \times 1}\right) + \tan^{-1}\left(\frac{3-2}{1+3 \times 2}\right) + \dots + \tan^{-1}\left(\frac{(n+1)-n}{1+(n+1)n}\right)$$

$$= \tan^{-1}2 - \tan^{-1}1 + \tan^{-1}3 - \tan^{-1}2 + \dots + \tan^{-1}(n+1) - \tan^{-1}n$$

$$= \tan^{-1}(n+1) - \tan^{-1}(1)$$

$$= \tan^{-1}\left(\frac{n+1-1}{1+(n+1) \cdot 1}\right) = \tan^{-1}\left(\frac{n}{n+2}\right)$$

14. The corner points of the feasible region determined by the system of linear constraints are  $(0, 10)$ ,  $(5, 5)$ ,  $(15, 15)$ ,  $(0, 20)$ . Let

$z = px + qy$  where  $p, q > 0$ . The relation

between  $p$  and  $q$ , so that the maximum  $z$

occurs at both points  $(15, 15)$  and  $(0, 20)$  is

- 1)  $p = q$     2)  $p = 2q$     3)  $q = 2p$     4)  $q = 3p$

**Ans. 4**

**Sol.** From given  $15p + 15q = 20q$

$$\Rightarrow 15p = 5q \Rightarrow q = 3p$$

15. In Linear Programming Problem (LPP), the objective function  $Z = ax + by$  has the same maximum value at two corner points. The number of points at which  $Z_{\max}$  occurs is

- 1) 1                      2) 2                      3) 0                      4) Infinity

**Ans. 4**



# DR ACADEMY

DO RIGHT FOR GENUINE EDUCATION

## BENGALURU | HYDERABAD

### JEE MAIN - 2025 ACHIEVERS



**99.42**  
NANDISH M



**99.24**  
JAYANTH K S



*Congratulations*

## EXEMPLARY PERFORMANCE IN THE JEE MAIN - 2026

JAYANTH GOWDA R

**98.94**

APP.NO. 260320062280

TEJAS KENCHAPPA

**98.81**

APP.NO. 260310597858

REDDY SRIHARI V

**98.10**

APP.NO. 260310192057

 <b>97.96</b> APP.NO. 260310493466	 <b>97.75</b> APP.NO. 260310797312	 <b>97.34</b> APP.NO. 260310637090	 <b>97.21</b> APP.NO. 260310806003	 <b>96.62</b> APP.NO. 260310638056	 <b>96.43</b> APP.NO. 260310718943	 <b>96.34</b> APP.NO. 260310349746
 <b>96.24</b> APP.NO. 260310917297	 <b>95.92</b> APP.NO. 260310488132	 <b>95.84</b> APP.NO. 260310637512	 <b>95.24</b> APP.NO. 260310674654	 <b>95.22</b> APP.NO. 260310867415	 <b>95.06</b> APP.NO. 260310594915	 <b>95.02</b> APP.NO. 260310439376
 <b>94.82</b> APP.NO. 260310635876	 <b>94.82</b> APP.NO. 260310789905	 <b>94.79</b> APP.NO. 260310303978	 <b>94.72</b> APP.NO. 260310669444	 <b>94.61</b> APP.NO. 260310627277	 <b>94.50</b> APP.NO. 260310506801	 <b>94.42</b> APP.NO. 260310586338
 <b>94.39</b> APP.NO. 260310393311	 <b>94.36</b> APP.NO. 260310898333	 <b>94.07</b> APP.NO. 260310867994	 <b>93.98</b> APP.NO. 260310616723	 <b>93.76</b> APP.NO. 260310589098	 <b>93.41</b> APP.NO. 260310802775	 <b>93.11</b> APP.NO. 260310963076
 <b>92.94</b> APP.NO. 260310871388	 <b>92.93</b> APP.NO. 260310623906	 <b>92.71</b> APP.NO. 260310347432	 <b>92.52</b> APP.NO. 260310913612	 <b>92.46</b> APP.NO. 260310654142	 <b>92.32</b> APP.NO. 26032022435	 <b>91.71</b> APP.NO. 260310922910
 <b>91.70</b> APP.NO. 260310403807	 <b>91.64</b> APP.NO. 260310854947	 <b>91.38</b> APP.NO. 260310298883	 <b>91.25</b> APP.NO. 260310512048	 <b>91.09</b> APP.NO. 260310496161	 <b>90.94</b> APP.NO. 260311006807	 <b>90.82</b> APP.NO. 260310908623
 <b>90.68</b> APP.NO. 260310894844	 <b>90.67</b> APP.NO. 260310594083	 <b>90.37</b> APP.NO. 260311002818	 <b>90.35</b> APP.NO. 26031118010	 <b>90.32</b> APP.NO. 260310656589	 <b>90.25</b> APP.NO. 260310177214	 <b>90.11</b> APP.NO. 260310351712
 <b>90.11</b> APP.NO. 260310402671	 <b>90.10</b> APP.NO. 260310807475	 <b>90.06</b> APP.NO. 260310955599	 <b>90.00</b> APP.NO. 260310685286			

**ADMISSION OPEN**  
**2026 - 2027**

**DAY & RESIDENTIAL**  
**SEPARATE HOSTEL FOR BOYS & GIRLS**

#42, 100FT ROAD, KAMMAGONDANAHALLI,  
JALAHALLI WEST, BENGALURU - 560 015  
**90080 30463 / 90080 30896 / 97400 79996**

NELAMANGALA : #2/5, NARAYANAPPA PALYA,  
DASANAPURA, TUMKUR ROAD, BENGALURU - 560 062.  
**95133 30438 / 81399 66644 / 99805 33120**

**Sol.**  $\therefore Z_{\max}$  has the same maximum at two points.

$\therefore Z_{\max}$  lies on the line joining by the two points. Since the line segment contains infinite points then the number of maximum points is infinity.

16. Probability of obtaining an even prime number on each die when a pair of dice is rolled is

- 1) 0      2)  $\frac{1}{6}$       3)  $\frac{1}{12}$       4)  $\frac{1}{36}$

**Ans. 4**

**Sol.** Since the only even prime number is 2,

Let  $E = \{2\} \Rightarrow n(E) = 1, n(S) = 36$

then  $P(E) = \frac{1}{36}$

17. The probability that a man and his wife live after 20 years are  $\frac{1}{4}$  and  $\frac{1}{3}$  respectively. The probability that neither the man nor his wife live after 20 years is

- 1)  $\frac{3}{4}$       2)  $\frac{1}{12}$       3)  $\frac{7}{12}$       4)  $\frac{1}{2}$

**Ans. 4**

**Sol.**  $p(A) = \frac{1}{4}, p(B) = \frac{1}{3}$

$p(A' \cap B') = p(A')p(B')$

$= \left(1 - \frac{1}{4}\right)\left(1 - \frac{1}{3}\right) = \frac{1}{2}$

18. Integrating factor of the differential equation

$(1 - x^2)\frac{dy}{dx} - xy = 1$  is

- 1)  $1 - x^2$       2)  $\frac{1}{2} \log|1 - x^2|$   
 3)  $\frac{x}{1 + x^2}$       4)  $\sqrt{1 - x^2}$

**Ans. 4**

**Sol.** **I.F**  $= e^{\int \frac{-x}{1-x^2} dx}$

$= e^{\frac{1}{2} \int \frac{-2x}{1-x^2} dx}$

$= e^{\frac{1}{2} \log(1-x^2)}$

$= \sqrt{1 - x^2}$

19. Recent studies suggest that 12% of the world population is left handed. Depending on parents' hand usage, the chances of having left handed children are as follows:

**A:** Both parents are left handed, chances of having left handed children = 24%

**B:** Both parents are right handed, chances of having left handed children = 9%

**C:** Father left handed and mother right handed, chances of having left handed children = 17%

**D:** Father right handed and mother left handed, chances of having left handed children = 22%

Given  $P(A) = P(B) = P(C) = P(D) = 1/4$  and L denotes child is left handed. What is the probability that  $P(A|L)$  ?

- 1)  $\frac{17}{100}$       2)  $\frac{19}{25}$       3)  $\frac{1}{3}$       4)  $\frac{2}{3}$

**Ans. 3**

**Sol.**

$$p(A/L) = \frac{p(A)p(L/A)}{p(A)p(A/L) + p(B)p(L/B) + p(C)p(L/C) + p(D)p(L/D)}$$

$$= \frac{\frac{1}{4} \times \frac{24}{100}}{\frac{1}{4} \times \frac{24}{100} + \frac{1}{4} \times \frac{9}{100} + \frac{1}{4} \times \frac{17}{100} + \frac{1}{4} \times \frac{22}{100}}$$

$$= \frac{24}{24 + 9 + 17 + 22} = \frac{24}{72} = \frac{1}{3}$$

20. If  $\alpha$  and  $\beta$  are acute angles such that  $\alpha + \beta$  and  $\alpha - \beta$  satisfy the equation

$\tan^2 \theta - 4 \tan \theta + 1 = 0$ , then  $\alpha$  and  $\beta$  are respectively,

- 1)  $45^\circ, 30^\circ$       2)  $30^\circ, 45^\circ$   
 3)  $30^\circ, 60^\circ$       4)  $60^\circ, 45^\circ$

**Ans. 1**

**Sol.**  $\tan \theta = \frac{4 \pm \sqrt{16 - 4}}{2}$

$= \frac{4 \pm \sqrt{12}}{2}$

$\tan \theta = 2 \pm \sqrt{3}$

$\tan(\alpha + \beta) = (2 + \sqrt{3}) \Rightarrow (\alpha + \beta) = 75^\circ$

$\tan(\alpha - \beta) = (2 - \sqrt{3}) \Rightarrow (\alpha - \beta) = 15^\circ$

$\Rightarrow \alpha = 45^\circ, \beta = 30^\circ$

21.  $\sum_{n=1}^4 (\sqrt{-1})^{2n} =$   
 1) 2            2) -1            3) 0            4) i

**Ans. 3**

**Sol.**  $\sum_{n=1}^4 i^{2n} = i^2 + i^4 + i^6 + i^8$   
 $= -1 + 1 + -1 + 1 = 0$

22. The solution of  $3(x-1) \leq 2(x-3)$  is  
 1)  $x \leq -3$                             2)  $x \geq -3$   
 3)  $x \leq 3$                               4)  $x \geq 3$

**Ans. 1**

**Sol.**  $3x - 3 \leq 2x - 6$   
 $3x - 2x \leq -6 + 3$   
 $x \leq -3$

23. 10 distinct points are taken on a circle. Then using these points

**Statement I :** The number of triangles that can be formed is 100

**Statement II :** The number of chords that can be formed is 45

Which of the following is correct?

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

**Ans. 4**

**Sol. I:** The number of circles  $= 10C_3 = 120$

**II:** The number of line segments  $= 10C_2 = 45$

24. How many ways can you arrange all the letters and numbers in "KCET 2025" which start with K and end with 5 ?

- 1) 720            2) 360            3) 120            4) 180

**Ans. 2**

**Sol. K** CET2025  $\rightarrow \frac{6!}{2!} = 360$

25. The value at  $x = 2$  for

$$\frac{x^3 + 3x^2 + 3x + 1}{x^4 + 4x^3 + 6x^2 + 4x + 1} =$$

1) 3            2)  $\frac{25}{61}$             3)  $\frac{1}{3}$             4)  $\frac{19}{73}$

**Ans. 3**

**Sol.** Given expression is  $= \frac{(x+1)^3}{(x+1)^4} = \frac{1}{x+1}$

For  $x = 2$ , The given expression becomes

$$\frac{1}{2+1} = \frac{1}{3}$$

26. If we insert two numbers between  $\sqrt{2}$  and 4 so that the resulting sequence is in G.P, then the inserted numbers in the order are

- 1)  $8, \sqrt{2}$             2)  $2, \sqrt{8}$             3)  $\sqrt{8}, 2$             4)  $\sqrt{2}, 8$

**Ans. 2**

**Sol.** Let  $\sqrt{2}, a, b, 4$  are in G.P

$$4 = (\sqrt{2})r^3 \Rightarrow r^3 = \frac{4}{\sqrt{2}} = 2\sqrt{2} = (\sqrt{2})^3$$

$$\Rightarrow r = \sqrt{2}$$

$$a = \sqrt{2}\sqrt{2} = 2, \quad b = \sqrt{2}(\sqrt{2})^2 = 2\sqrt{2} = \sqrt{8}$$

27. Match List-I with List-II

	List-I		List-II
a)	A matrix which is not a square matrix	i)	Symmetric matrix
b)	A square matrix $A' = A$	ii)	Null matrix
c)	The diagonal elements of a diagonal matrix are same	iii)	Rectangular matrix
d)	A matrix which is both symmetric and skew symmetric	iv)	Scalar matrix

- 1) a - iii, b - i, c - ii, d - iv
- 2) a - iii, b - ii, c - iv, d - i
- 3) a - iii, b - i, c - iv, d - ii
- 4) a - iii, b - iv, c - i, d - ii

**Ans. 3**

**Sol.** Conceptual

28. Consider the following statements:

**Statement I:** If A is a non-singular matrix, then  $A^{-1}$  exists.

**Statement II :** If A and B are symmetric matrices of same order, then  $(AB-BA)$  is a skew symmetric matrix

Choose the correct option.

- 1) Statement I is true and Statement II is false
- 2) Statement I is false and Statement II is false
- 3) Statement I is true and Statement II is true
- 4) Statement I is false and Statement II is true

**Ans. 3**

**Sol.** I: Conceptual

II: Let  $C = AB - BA$

$$C' = (AB - BA)' = (AB)' - (BA)'$$

$$= B'A' - A'B'$$

$$= BA - AB = -(AB - BA) = -C$$

Then C is skew symmetric matrix



# ASHOK PU COLLEGE

Approved by Board of Pre-University Education, Karnataka



# ಡಿ.ಆರ್. ಅಕಾಡೆಮಿ DR ACADEMY DO RIGHT FOR GENUINE EDUCATION

## Congratulations

### 2nd PUC SCIENCE 2026 TOPPERS



**591**  
MARKS

**DEEPTHI T M**  
App No. 20269156020



**591**  
MARKS

**SINCHANA R**  
App No. 20269156317



**590**  
MARKS

**SAMRUDDI SADALAPUR**  
App No. 20269156279



**589**  
MARKS

**NANDINI**  
App No. 20269156179



**589**  
MARKS

**PUNARAV**  
App No. 20269154533



**588**  
MARKS

**KRISHNA PRASAD D M**  
App No. 20269154352



**587**  
MARKS

**SOUMYAMANI P L**  
App No. 20269156330



**587**  
MARKS

**TARUN A M**  
App No. 20269154703



**586**  
MARKS

**KUNDAN KRISHNA**  
App No. 20269154353



**585**  
MARKS

**SHREYA PATIL**  
App No. 20269156313



**585**  
MARKS

**MALLIKARJUNA PATIL**  
App No. 20269154386



**585**  
MARKS

**SHARAN KUMAR M S**  
App No. 20269154623



**585**  
MARKS

**PRAJWAL V HIREMATH**  
App No. 20269154513



**585**  
MARKS

**SIRI PARTHIPALLI GOPAL**  
App No. 20269156322



**585**  
MARKS

**GADHADHAR P**  
App No. 20269154256



**585**  
MARKS

**NEHA P**  
App No. 20269156192



**584**  
MARKS

**BHUVI ASHOK AJARADDI**  
App No. 20269155988



**584**  
MARKS

**CHANDANA M**  
App No. 20269155997



**584**  
MARKS

**NEHA N**  
App No. 20269156191



**584**  
MARKS

**DEEPTHI J**  
App No. 20269156019

**ADMISSION OPEN**  
**2026 - 2027**

**100% PASS**

# ADMISSION OPEN

2026 - 2027

# DAY & RESIDENTIAL

SEPARATE HOSTEL FOR BOYS & GIRLS

## ASHOK COMPOSITE PU COLLEGE

### ASHOK GIRLS PU COLLEGE

DISTINCTION

FIRST CLASS

# 488

# 54



**584**  
MARKS

**SHASHANK A Y**  
App No. 20269154629



**584**  
MARKS

**SPOORTHI B R**  
App No. 20269156334



**584**  
MARKS

**G HEMA CHANDANA**  
App No. 20269156041



**583**  
MARKS

**SADIYA ISHRATH**  
App No. 20269156266



**583**  
MARKS

**VAISHNAVI M**  
App No. 20269156370



**583**  
MARKS

**ROHITHA T V**  
App No. 20269156259



**583**  
MARKS

**ADARSH M S**  
App No. 20269154097



**582**  
MARKS

**JEEVAN Y**  
App No. 20269154315



**582**  
MARKS

**KRUTHIKA N**  
App No. 20269156104



**582**  
MARKS

**SAVITHA G T**  
App No. 20269156291



**582**  
MARKS

**NANDU K N**  
App No. 20269156184



**582**  
MARKS

**NIKHIL B V**  
App No. 20269154465



**582**  
MARKS

**SOURAV T N**  
App No. 20269154670



**582**  
MARKS

**RAHUL T L**  
App No. 20269154549



**582**  
MARKS

**SHARATH KUMAR HUGAR**  
App No. 20269154626



**581**  
MARKS

**NOOTHANA H R**  
App No. 20269156201



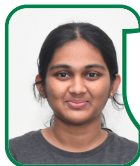
**581**  
MARKS

**NANDITHA M**  
App No. 20269156182



**581**  
MARKS

**DEEPIKA REDDY R M**  
App No. 20269156017



**581**  
MARKS

**LIKHITHA S**  
App No. 20269156123



**581**  
MARKS

**MOUNIKA B M**  
App No. 20269156168



**581**  
MARKS

**AKASH J**  
App No. 20269154108



**581**  
MARKS

**JEEVAN JAGRUTH B**  
App No. 20269154310



**581**  
MARKS

**KALMESH NINGAPPA N**  
App No. 20269154325



**581**  
MARKS

**AKSHAY**  
App No. 20269154119



**581**  
MARKS

**SAHASRA P S**  
App No. 20269156273



**581**  
MARKS

**ARYA RAO**  
App No. 20269154149



**COURSES OFFERED**

**PCMCs / PCMB**

**JEE MAIN / NEET / KCET**

### JALAHALLI

#42, 100FT ROAD, KAMMAGONDANAHALLI, JALAHALLI WEST, BENGALURU - 560 015  
+91 90080 30463 / +91 90080 30896 / +91 97400 79996

### NELAMANGALA

DASANAPURA : #2/5, NARAYANAPPA PALYA, DASANAPURA, TUMKUR ROAD, BENGALURU - 560 062.  
+91 95133 30438 / +91 99805 33120

29. A row matrix has only
- 1) One element
  - 2) One row with one or more columns
  - 3) One column with one or more rows
  - 4) One row and one column

**Ans. 2**

**Sol.** A row matrix has only one row with one or more columns

30. Let X be a matrix of order  $2 \times n$  and Z be a matrix of order  $2 \times p$ . If  $n = p$ , then the order of the matrix  $8X - 9Z$  is:

- 1)  $2 \times n$
- 2)  $p \times 2$
- 3)  $n \times 3$
- 4)  $p \times n$

**Ans. 1**

**Sol.** Since same order matrixes can be added or subtracted then order of  $8X - 9Z$  is  $2 \times n$

31. Which of the following is correct?
- 1) Determinant is a square matrix
  - 2) Determinant is a number associated to a matrix
  - 3) Determinant is a unique number associated to a square matrix
  - 4) Determinant is not defined for a square matrix

**Ans. 3**

**Sol.** Conceptual

32. If A and B are invertible matrices of same order, then which of the following is not correct?

- 1)  $A \cdot (\text{adj}A) = (\text{adj}A) \cdot A = AI$
- 2)  $A(\text{adj}A) = (\text{adj}A) \cdot A = |A|I$
- 3)  $(AB)^{-1} = B^{-1} A^{-1}$
- 4)  $|A| \neq 0, |B| \neq 0$

**Ans. 1**

**Sol.**  $A(\text{Adj}A) = (\text{adj}A)A \neq AI$

33. If A and B are invertible square matrices of order n, then which of the following is not correct?

- 1)  $\det(AB) = \det(A) \cdot \det(B)$
- 2)  $\det(kA) = k^n \det(A)$
- 3)  $\det(A + B) = \det(A) + \det(B)$
- 4)  $\det(A') = \frac{1}{\det(A^{-1})}$

**Ans. 3**

**Sol.**  $\det(A + B) \neq \det A + \det B$

34. The area of the triangle with vertices  $(3, 8), (-4, 2)$  and  $(5, 1)$  is  $\frac{P}{4}$ , then the value of

- P is
- 1)  $\frac{61}{2}$
  - 2)  $\frac{2}{61}$
  - 3) 122
  - 4)  $\frac{1}{122}$

**Ans. 3**

**Sol.**  $\Delta = \frac{1}{2} \begin{vmatrix} 3 & 8 & 1 \\ -4 & 2 & 1 \\ 5 & 1 & 1 \end{vmatrix} = \frac{P}{4}$

$$3[2-1] - 8(-4-5) + 1(-4-10) = \frac{P}{2}$$

$$3 - 8(-9) - 14 = \frac{P}{2}$$

$$3 + 72 - 14 = \frac{P}{2} \Rightarrow 61 = \frac{P}{2} \Rightarrow P = 122$$

35. The system of equations  $x + 2y = 3$  and  $2x + 3y = 3$  has

- 1) No solution
- 2) Unique solution
- 3) Infinite solutions
- 4) Only two solutions

**Ans. 2**

**Sol.**  $a_1 = 1, b_1 = 2, c_1 = 3; a_2 = 2, b_2 = 3, c_2 = 3$

$$\frac{a_1}{a_2} \neq \frac{b_1}{b_2} \Rightarrow \frac{1}{2} \neq \frac{2}{3}$$

Then lines are intersecting  
 $\therefore$  unique solution

36. If  $\vec{a} = 2\hat{i} + 2\hat{j} - \hat{k}, \vec{b} = \alpha\hat{i} + \beta\hat{j} + 2\hat{k}$  and

$$|\vec{a} + \vec{b}| = |\vec{a} - \vec{b}|, \text{ then } \alpha + \beta \text{ is equal to}$$

- 1) 2
- 2) -1
- 3) 0
- 4) 1

**Ans. 4**

**Sol.**  $|\vec{a} + \vec{b}|^2 = |\vec{a} - \vec{b}|^2$

$$(2 + \alpha)^2 + (2 + \beta)^2 + 1 = (2 - \alpha)^2 + (2 - \beta)^2 + 9$$

$$4 + \alpha^2 + 4\alpha + 4 + \beta^2 + 4\beta + 1 = 4 + \alpha^2 - 4\alpha + 4 + \beta^2 - 4\beta + 9$$

$$8\alpha + 8\beta = 8 \Rightarrow \alpha + \beta = 1$$

37. If  $\vec{a} = \hat{i} + \hat{j} + \hat{k}, \vec{b} = \hat{j} - \hat{k}$  and  $\vec{a} \times \vec{c} = \vec{b}, \vec{a} \cdot \vec{c} = 3$ , then  $\vec{c}$  is

- 1)  $\frac{5}{3}\hat{i} + \frac{2}{3}\hat{j} - \frac{2}{3}\hat{k}$
- 2)  $\frac{5}{3}\hat{i} - \frac{2}{3}\hat{j} + \frac{2}{3}\hat{k}$
- 3)  $\frac{5}{3}\hat{i} + \frac{2}{3}\hat{j} + \frac{2}{3}\hat{k}$
- 4)  $\frac{5}{3}\hat{i} - \frac{2}{3}\hat{j} - \frac{2}{3}\hat{k}$

**Ans. 3**

**Sol.** Option (3) verification

$$\vec{a} \cdot \vec{c} = (\hat{i} + \hat{j} + \hat{k}) \cdot \left( \frac{5}{3}\hat{i} + \frac{2}{3}\hat{j} + \frac{2}{3}\hat{k} \right)$$

$$= \frac{5}{3} + \frac{2}{3} + \frac{2}{3} = \frac{9}{3} = 3$$

38. The value of  $\lambda$  for which the vectors  $\vec{a} = 2\hat{i} + \lambda\hat{j} + \hat{k}$  and  $\vec{b} = \hat{i} + 2\hat{j} + 3\hat{k}$  are orthogonal is

- 1)  $\frac{5}{2}$       2)  $-\frac{5}{2}$       3)  $\frac{2}{5}$       4)  $-\frac{2}{5}$

**Ans. 2**

**Sol.** Given  $\vec{a}$  and  $\vec{b}$  are orthogonal

$$\therefore \vec{a} \cdot \vec{b} = 0$$

$$(2\hat{i} + \lambda\hat{j} + \hat{k}) \cdot (\hat{i} + 2\hat{j} + 3\hat{k}) = 0$$

$$2 + 2\lambda + 3 = 0 \Rightarrow 2\lambda = -5 \Rightarrow \lambda = -\frac{5}{2}$$

39. The angle between the lines whose direction ratios are  $a, b, c$  and  $b - c, c - a, a - b$  is

- 1)  $90^\circ$       2)  $60^\circ$       3)  $30^\circ$       4)  $0^\circ$

**Ans. 1**

**Sol.** Since  $a(b - c) + b(c - a) + c(a - b)$

$$= ab - ac + bc - ab + ac - bc = 0$$

$$\therefore \theta = 90^\circ$$

40. The measure of the angle between the lines  $x = k + 1, y = 2k - 1, z = 2k + 3, k \in \mathbb{R}$  and  $\frac{x-1}{2} = \frac{y-2}{1} = \frac{z-3}{1}$  is

- 1)  $\cos^{-1}\left(\frac{2}{3}\right)$       2)  $\cos^{-1}\left(\frac{\sqrt{2}}{\sqrt{3}}\right)$   
 3)  $\cos^{-1}\left(\frac{\sqrt{3}}{2}\right)$       4)  $\cos^{-1}\left(\frac{3}{2}\right)$

**Ans. 2**

**Sol.** Given lines  $\frac{x-1}{1} = \frac{y+1}{2} = \frac{z-3}{2}$  and

$$\frac{x-1}{2} = \frac{y-2}{1} = \frac{z-3}{1}$$

$$\cos \theta = \frac{a_1 a_2 + b_1 b_2 + c_1 c_2}{\sqrt{a_1^2 + b_1^2 + c_1^2} \sqrt{a_2^2 + b_2^2 + c_2^2}}$$

$$= \frac{1(2) + 2(1) + 2(1)}{\sqrt{1+4+4} \sqrt{4+1+1}} = \frac{6}{(3)\sqrt{6}} = \frac{\sqrt{2} \times \sqrt{2}}{\sqrt{3} \times \sqrt{2}}$$

$$\cos \theta = \frac{\sqrt{2}}{\sqrt{3}} \Rightarrow \theta = \cos^{-1}\left(\frac{\sqrt{2}}{\sqrt{3}}\right)$$

41. The line  $L_1$  joining the two points  $(-1, 2)$  and  $(3, 6)$  divides the line  $L_2$  which passes through  $(3, -1)$  in the ratio  $1:3$  internally, then the equation of  $L_2$  is

- 1)  $4x - 3y - 9 = 0$       2)  $4x - 3y + 9 = 0$   
 3)  $4x + 3y - 9 = 0$       4)  $4x + 3y + 9 = 0$

**Ans. 3**

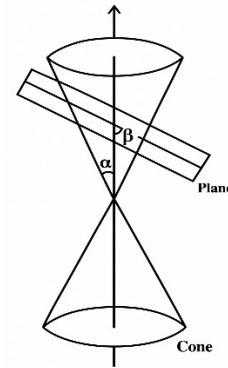
**Sol.** Option (3) verification

$$4(3) + 3(-1) - 9 = 0$$

42. In the figure

**Statement-I:** When  $\alpha > \beta \geq 0$ , the section is hyperbola

**Statement-II:** When  $\beta > 90^\circ$ , the section is ellipse



Which of the following is correct?

- 1) Statement I is true, Statement II is false  
 2) Statement I is false, Statement II is true  
 3) Both the Statements are true  
 4) Both the Statements are false

**Ans. 1**

**Sol.** Statement-I : If  $\alpha > \beta \geq 0$  then the conic is a hyperbola is true

Statement-II: When  $\alpha < \beta < 90^\circ$ , the section is ellipse

43. The three points  $A(2, 4, 3), B(4, a, 9)$  and  $C(10, -1, 7)$  form a right-angled triangle with

$\angle B = 90^\circ$ , then the value of "a" is

- 1) 1 or 4      2) -1 or 4  
 3) 1 or -4      4) -1 or -4

**Ans. 2**

**Sol.**  $\vec{AB} \cdot \vec{BC} = 0$

$$(2\hat{i} + (a-4)\hat{j} + 6\hat{k}) \cdot (6\hat{i} + (-1-a)\hat{j} - 2\hat{k}) = 0$$

$$12 - (a-4)(a+1) - 12 = 0$$

$$a^2 + a - 4a - 4 = 0$$

$$a^2 - 3a - 4 = 0 \Rightarrow a = -1, 4$$

44. If  $\lim_{x \rightarrow 3} \left( \frac{x^2 - ax - 3b}{x - 3} \right) = 5$ , then  $a + b =$

- 1) 1      2) 2      3) 3      4) 4

**Ans. 3**

**Sol.**  $\lim_{x \rightarrow 3} x^2 - ax - 3b = 0$

$$9 - 3a - 3b = 0 \Rightarrow 3a + 3b = 9 \Rightarrow a + b = 3$$

45. If  $f(x) = \begin{cases} x^2 - 1 & \text{if } x \geq 2 \\ x + 1 & \text{if } x < 2 \end{cases}$ , then

$$\lim_{x \rightarrow 1} f(x) + \lim_{x \rightarrow 2} f(x) =$$

- 1) 3            2) 5            3) 7            4) 9

**Ans. 2**

**Sol.**  $\lim_{x \rightarrow 1} f(x) = \lim_{x \rightarrow 1} x + 1 = 2$

$$\lim_{x \rightarrow 2^+} f(x) = \lim_{x \rightarrow 2^+} (x^2 - 1) = 3$$

$$\lim_{x \rightarrow 2^-} f(x) = \lim_{x \rightarrow 2^-} (x + 1) = 2 + 1 = 3$$

$$\lim_{x \rightarrow 2} f(x) = 3$$

$$\therefore \lim_{x \rightarrow 1} f(x) + \lim_{x \rightarrow 2} f(x) = 2 + 3 = 5$$

46. If  $y = \sqrt[3]{\tan x + y}$ , then  $\frac{dy}{dx} =$

- 1)  $\frac{\tan x}{3y^2 - 1}$             2)  $\frac{\sec^2 x}{3y - 1}$   
 3)  $\frac{\tan x}{3y - 1}$             4)  $\frac{\sec^2 x}{3y^2 - 1}$

**Ans. 4**

**Sol.**  $y^3 = \tan x + y$

$$(3y^2 - 1) \frac{dy}{dx} = \sec^2 x$$

$$\frac{dy}{dx} = \frac{\sec^2 x}{3y^2 - 1}$$

47. If  $f(x) = \begin{cases} ax + 7 & \text{if } x < 1 \\ 3x - 1 & \text{if } x = 1 \\ \frac{x + 3}{b} & \text{if } x > 1 \end{cases}$

is continuous at  $x = 1$ , then

- 1)  $a = 5, b = 2$             2)  $a = -5, b = -2$   
 3)  $a = 5, b = -2$             4)  $a = -5, b = 2$

**Ans. 4**

**Sol.**  $\lim_{x \rightarrow 1^-} f(x) = \lim_{x \rightarrow 1^+} f(x) = f(1)$

$$a + 7 = 2 = \frac{4}{b}$$

$$a = -5, b = 2$$

48. The second order derivative of  $\cos^{-1}(4x^3 - 3x)$  with respect to  $\cos^{-1}(2x^2 - 1)$ , where  $\frac{1}{2} < x < 1$  is

- 1) 0            2)  $\frac{-1}{\sqrt{1-x^2}}$   
 3)  $\frac{3}{2}$             4)  $\frac{-3}{2}$

**Ans. 1**

**Sol.** Let  $x = \cos \theta$

Derivative of  $3 \cos^{-1} x$  w.r.t  $2 \cos^{-1} x$ .

$$f'(x) = \frac{d(3 \cos^{-1} x)}{d(2 \cos^{-1} x)} = \frac{3}{2}$$

$$f''(x) = 0$$

49. If  $f(x) = \sin^{-1}\left(\frac{2x}{1+x^2}\right)$ , then  $f'\left(\frac{1}{2}\right) =$

- 1)  $\frac{8}{5}$             2)  $\frac{5}{8}$             3)  $\frac{4}{5}$             4) 0

**Ans. 1**

**Sol.** Let  $x = \tan \theta$

$$f(x) = 2 \tan^{-1} x$$

$$f'(x) = \frac{2}{1+x^2}$$

$$f'(1/2) = 8/5$$

50. If  $\sqrt{x} \sqrt[3]{y} = (x+y)^n$  and  $x \frac{dy}{dx} - y = 0$ , then  $n =$

- 1) 1            2)  $\frac{6}{5}$             3)  $\frac{5}{6}$             4)  $\frac{4}{9}$

**Ans. 3**

**Sol.**  $(x+y)^n = x^{1/2} y^{1/3}$  and  $\frac{dy}{dx} = \frac{y}{x}$

Then  $f(x)$  is homogeneous function

$$\text{Then } n = \frac{1}{2} + \frac{1}{3} = \frac{5}{6}$$

51. In a Mahakumbh, a drone camera is moving along  $3y = x^3 - 3$ . When  $y$ -coordinate changes 9 times as fast as  $x$ -coordinate, it captures good quality pictures. Then one of the precise positions of the drone at that instant is  
 1)  $(-3, -8)$     2)  $(3, -8)$     3)  $(3, 8)$     4)  $(-3, 8)$

**Ans. 3**



# INDO SUNRISE PU COLLEGE

Approved by Board of Pre-University Education, Karnataka - BB 0212



# ಡಿ.ಆರ್. ಅಕಾಡೆಮಿ DR ACADEMY DO RIGHT FOR GENUINE EDUCATION

## Congratulations

### 2nd PUC SCIENCE 2026 TOPPERS



**591**  
MARKS

**DIVYASHREE A**  
App No. 20269235504



**589**  
MARKS

**HARSHITH P**  
App No. 20269235547



**587**  
MARKS

**T L SHILPA**  
App No. 20269235908



**586**  
MARKS

**VARSHA CHANNABASU M**  
App No. 20269235936



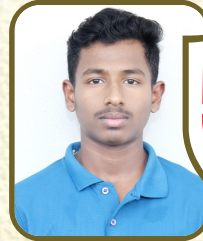
**586**  
MARKS

**GANGOTRI RAMAPPA B**  
App No. 20269235524



**585**  
MARKS

**SREEDHAR NANDHAN REDDY M**  
App No. 20269235872



**583**  
MARKS

**MOHAN G V**  
App No. 20269235691



**582**  
MARKS

**VARSHINI K**  
App No. 20269235939



**580**  
MARKS

**HIMASHREE M**  
App No. 20269235560



**579**  
MARKS

**ROOPA K Y**  
App No. 20269235803



**579**  
MARKS

**IMPANA K B**  
App No. 20269235565



**578**  
MARKS

**CHANDANA I N**  
App No. 20269235468



**576**  
MARKS

**USHA**  
App No. 20269235926



**575**  
MARKS

**CHAITHANYA N**  
App No. 20269235463



**575**  
MARKS

**GANESH N**  
App No. 20269235522



**572**  
MARKS

**CHAITHANYA P V**  
App No. 20269235464



**572**  
MARKS

**SHREYA N K**  
App No. 20269235846



**571**  
MARKS

**MONIKA S M**  
App No. 20269235695



**571**  
MARKS

**SHASHANK K M**  
App No. 20269235837



**570**  
MARKS

**KUSUMITHA N**  
App No. 20269235616

**ADMISSION OPEN**  
**2026 - 2027**

**100% PASS**  
**SCIENCE**

# ADMISSION OPEN

## 2026 - 2027

# DAY & RESIDENTIAL

## SEPARATE HOSTEL FOR BOYS & GIRLS

### DISTINCTION

### FIRST CLASS

# 153

# 61



**570**  
MARKS

**KOUSHAL P N**  
App No. 20269235604



**569**  
MARKS

**NAGAPOORVI B**  
App No. 20269235705



**569**  
MARKS

**SHUBHASHREE H R**  
App No. 20269235850



**569**  
MARKS

**VAIBHAV G M**  
App No. 20269235929



**568**  
MARKS

**CHANDANA V**  
App No. 20269235469



**568**  
MARKS

**TANUJA R**  
App No. 20269235912



**568**  
MARKS

**SYED ASHAR IMAM**  
App No. 20269235893



**568**  
MARKS

**JAGAN G N**  
App No. 20269235571



**567**  
MARKS

**SINCHANA**  
App No. 20269235855



**566**  
MARKS

**DIKSHITHA S**  
App No. 20269235501



**566**  
MARKS

**KUSHITHA B**  
App No. 20269235612



**565**  
MARKS

**ASRA HARMAIN**  
App No. 20269235423



**565**  
MARKS

**SYEDA IFFATH FATHIMA**  
App No. 20269235906



**565**  
MARKS

**TEJAS GOWDA H E**  
App No. 20269235914



**564**  
MARKS

**POOJITHA P**  
App No. 20269235763



**564**  
MARKS

**PREKSHA B L**  
App No. 20269235778



**564**  
MARKS

**DHRUTHI R**  
App No. 20269235497



**563**  
MARKS

**LAXMI MURAGESH BHANGI**  
App No. 20269235625



**563**  
MARKS

**SUKRUTH G**  
App No. 20269235885



**562**  
MARKS

**PAVANA A**  
App No. 20269235756



**562**  
MARKS

**DEEPTHI B**  
App No. 20269235493



**562**  
MARKS

**JAYANTH V**  
App No. 20269235575



**560**  
MARKS

**KISHAN GOWDA R**  
App No. 20269235597



**560**  
MARKS

**HARIHARAN J**  
App No. 20269235538



**559**  
MARKS

**SNEHA N**  
App No. 20269235863



**559**  
MARKS

**SANJANA**  
App No. 20269235822



**559**  
MARKS

**HIMALATHA T L**  
App No. 20269235558



**558**  
MARKS

**AASIYA BUSHRA**  
App No. 20269235375



**558**  
MARKS

**HARSHA VARDAN REDDY N**  
App No. 20269235543



**558**  
MARKS

**SRUJAN K N**  
App No. 20269235874



**558**  
MARKS

**KOMAL S R**  
App No. 20269235601



**558**  
MARKS

**MOUINUDDIN SHARIFF**  
App No. 20269235697



**558**  
MARKS

**PRAMITH K P**  
App No. 20269235770



**COURSES OFFERED**

**PCMCs / PCMB**

**JEE MAIN / NEET / KCET**

# 8147397999 / 9741332998 / 9535527713

Hoskote - Malur road, ISRI Cross, Kattigenahalli, Jadigenahalli Hobli, Bengaluru - 562114

**Sol.**  $3 \frac{dy}{dt} = 3x^2 \frac{dx}{dt}$

$\therefore \frac{dy}{dt} = 9 \left( \frac{dx}{dt} \right)$

$3 \left( 9 \frac{dx}{dt} \right) = 3x^2 \frac{dx}{dt}$

$x^2 = 9$

$x = \pm 3$

If  $x = 3, y = 8$

$(3, 8)$

$x = -3, y = 8$  does not satisfies

52. A You tube short video is getting viral according to  $f(t) = -2t^3 + 3t^2 + 5$ . At what time does the video get maximum number of shares? (t is in hours)

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

**Ans. 1**

**Sol.**  $f(t) = -2t^3 + 3t^2 + 5$

$f'(t) = -6t^2 + 6t$

$f'(t) = 0$

$t = 0, 1$

$f''(t) = -12t + 6$

$f''(1) = -12 + 6 = -6 < 0$

$\therefore f$  has maximum at  $t = 1$

53.  $\int xf(x)dx + \frac{f(x)}{2} = 0$ , then  $f(x)$  is equal to

- 1)  $e^{-2x}$     2)  $e^{2x}$     3)  $e^{-x^2}$     4)  $e^{x^2}$

**Ans. 3**

**Sol.**  $f(x) = e^{-x^2}$

**G.I**  $\int xe^{-x^2} dx = -\frac{1}{2} \int -(e^{-x^2}) 2x dx$  for  $t = -x^2$

$= -\frac{1}{2} \int e^t dt = -\frac{1}{2} e^{-x^2}$

54. One of the possible functions  $f(x)$  which satisfies  $\int_{-2}^2 f(x)dx = 0$  is

1)  $\log\left(\frac{2+x}{2-x}\right)$                     2)  $\sin(2+x)$

3)  $2x^3 + 2x + 1$                     4)  $2x \tan x$

**Ans. 1**

**Sol.**  $f(x) = \log\left(\frac{2+x}{2-x}\right)$

$f(-x) = \log\left(\frac{2-x}{2+x}\right) = -f(x)$

55.  $\int_{a-6}^{b-6} f(x+6)dx$  is equal to

1)  $\int_a^b f(x-6)dx$                     2)  $\int_a^b f(x+6)dx$

3)  $\int_a^b f(x)dx$                     4)  $\int_a^b f(-x)dx$

**Ans. 3**

**Sol.**  $\int_{a-6}^{b-6} f(x+6)dx = [F(x+6)]_{a-6}^{b-6}$   
 $= F(b) - F(a)$   
 $= \int_a^b f(x)dx$

56. If 'n' is a natural number, then  $\int \frac{\sin^n x}{\cos^{n+2} x} dx =$

1)  $\frac{\tan^{n-1} x}{n-1} + C$                     2)  $\frac{\tan^n x}{n} + C$

3)  $\frac{\tan^{n+2} x}{n+2} + C$                     4)  $\frac{\tan^{n+1} x}{n+1} + C$

**Ans. 4**

**Sol.**  $I = \int \frac{\sin^n x}{\cos^n x \cos^2 x} dx = \int \tan^n x \sec^2 x dx$

Put  $\tan x = t$  then  $I = \int t^n dt = \frac{t^{n+1}}{n+1} + C$

57.  $\int e^{-x \log 2} 2^x dx =$

1)  $\log x + C$                     2)  $x + C$

3)  $\frac{1}{x} + C$                     4)  $\frac{x^2}{2} + C$

**Ans. 2**

**Sol.** Since  $e^{-x \log 2} = 2^{-x}$

Then  $I = \int 2^{-x} \cdot 2^x dx = x + c$

58. The area of the region bounded by the curve  $y^2 = x^3$ , the y-axis and the lines  $y = 1$  and  $y = 8$  is

1)  $\frac{155}{3}$  sq. units                    2)  $\frac{93}{5}$  sq. units

3) 93 sq. units                    4) 155 sq. units

**Ans. 2**

**Sol.**  $\int_1^8 y^{2/3} dy = \left( \frac{y^{5/3}}{5/3} \right)_1^8 = \frac{93}{5}$

59. The area enclosed by the curve  
 $x = \sqrt{3}\cos\theta, y = \sqrt{3}\sin\theta$  is

- 1)  $\sqrt{3}\pi$  sq. units      2)  $9\pi$  sq. units  
3)  $6\pi$  sq. units      4)  $3\pi$  sq. units

**Ans. 4**

**Sol.** The given parametric equations in cartesian form is  $x^2 + y^2 = 3$  is a circle  $A = \pi r^2 = 3\pi$

60. Sum of the squares of the order and degree (if defined) of a differential equation

$$2y' + (y'')^2 = \sqrt{y'' - 3} \text{ is}$$

- 1) 3      2) 20      3) 8      4) 16

**Ans. 2**

**Sol.** After simplifying the given D.E. in standard form we get Order = 2, Degree = 4

$$2^2 + 4^2 = 20$$



DR ACADEMY IS THE PERFECT DESTINATION FOR MEDICAL ASPIRANTS

THE JOURNEY...  
NEET MEDICAL  
SELECTIONS

123  
2018

210  
2019

182  
2020

279  
2021

445  
2022

452  
2023

569  
2024

524  
2025

DURING OUR EIGHT-YEARS JOURNEY, WE HAVE GENERATED  
2784 MEDICAL AND 2900+ ENGINEERING SELECTIONS.

NEET-2022 | BMC, BANGALORE

650  
MARKS  
SANKALP

NEET-2022 | KIMS, HUBLI

650  
MARKS  
ABHIJIT RAMESH MIRJI

NEET - 2024 | VIMS - BELLARY

649  
MARKS  
KEERTI VEERANNA KORI

NEET - 2024 | VIMS - BELLARY

648  
MARKS  
SONIYA S

NEET - 2024 | BMC - BANGALORE

647  
MARKS  
NAVYA

NEET - 2024 | BIMC - BELAGAVI

647  
MARKS  
SIDDANAGOUDA PATIL

NEET - 2024 | BIMC - BELAGAVI

647  
MARKS  
OMKAR N MUDENUR

NEET-2024 | MIMS - MANDYA

647  
MARKS  
VIJAY KUMAR B DEYANNAVAR

NEET-2022 | BMC, BANGALORE

647  
MARKS  
SUPRIT SAMJAY K

NEET-2021 | BMC, BANGALORE

647  
MARKS  
PRAMOD I HONAGOUD

NEET-2020 | BMC, BANGALORE

647  
MARKS  
CHANDAN S

NEET-2024 | CIMS - CHAMARAJANAGAR

646  
MARKS  
BUTHESH G

NEET-2024 | GIMS - GADAG

646  
MARKS  
BASAVAKIRAN DHAREPPANAVAR

NEET-2024 | VIMS - BELLARY

646  
MARKS  
VENKATESH REDDY

NEET-2022 | BMC, BANGALORE

646  
MARKS  
SHIVAANI S GOUNDER

NEET-2022 | KIMS, HUBLI

646  
MARKS  
ROHAN R KONGI

NEET-2024 | BIMC - BELAGAVI

645  
MARKS  
CHANDANA B

NEET-2024 | GIMS - GADAG

645  
MARKS  
SHASHANK CHANDRA SHEKHAR KANDAGAL

NEET-2024 | MIMS - MANDYA

645  
MARKS  
PRASHANTGOUDA MENASAGI

NEET-2024 | PSGIMS - COIMBATORE

645  
MARKS  
GOURAV S

NEET-2024 | VIMS - BELLARY

645  
MARKS  
MEHANTH SAI REDDY G R

NEET-2023 | BMC, BANGALORE

645  
MARKS  
NABIYA MUSHTAQ AHMED M

NEET-2023 | GMC, SECUNDERABAD

645  
MARKS  
VJESH KANNA K

NEET-2022 | BMC, BANGALORE

645  
MARKS  
SAATHVIK S G

NEET-2021 | MMCRI, MYSORE

645  
MARKS  
AJEETH MALLAPPA T

NEET-2024 | HIMS - HASSAN

644  
MARKS  
DEEPTHI S M

NEET-2024 | MIMS - MANDYA

644  
MARKS  
SANJANA R

NEET-2023 | MMCRI, MYSORE

643  
MARKS  
VISHAL S PATIL

NEET-2022 | BMC, BANGALORE

643  
MARKS  
VAISHNAVI REDDY

NEET-2022 | SMC, CHENNAI

643  
MARKS  
S NAYANA

NEET-2021 | MMCRI, MYSORE

643  
MARKS  
CHANDANA N

NEET-2024 | RIMS - RAICHUR

642  
MARKS  
MOHD AFFAN HUSSAIN

NEET-2024 | SABVIMS - BENGALURU

642  
MARKS  
K RAKESH REDDY

NEET-2021 | SMC, CHENNAI

642  
MARKS  
NARENDRA BABU T V

NEET-2024 | CIMS - CHIKKABALLAPURA

641  
MARKS  
SIDDESH C S

NEET-2024 | GIMS - GADAG

641  
MARKS  
SUDEEP TANKASALI

NEET-2022 | BMC, BANGALORE

641  
MARKS  
PRAJWAL PATIL B R

NEET-2022 | BMC, BANGALORE

641  
MARKS  
FIZA ANJUM I T

NEET-2024 | BMC - BANGALORE

640  
MARKS  
SACHIN R BHAJANTRI

NEET-2024 | BGS - BANGALORE

640  
MARKS  
MOKSHITH N G

NEET-2024 | CIMS - CHIKKABALLAPURA

640  
MARKS  
ARYA PRASAD

NEET-2024 | GIMS - GADAG

640  
MARKS  
MOHAMMED SOHEB DOTEGAR

NEET-2024 | VIMS - BELLARY

640  
MARKS  
VINOD B

NEET-2023 | MMCRI, MYSORE

640  
MARKS  
SRUJAN S PATIL

NEET-2022 | BMC, BANGALORE

640  
MARKS  
CHINMAY SWAMY A M

NEET-2022 | MMCRI, MYSORE

640  
MARKS  
YASHAS T S

NEET-2024 | SIMS - SHIMOGA

639  
MARKS  
KOMAL GURAV

NEET-2022 | KIMS, HUBLI

639  
MARKS  
SOUMYA R BADAI

NEET-2024 | CIMS - CHAMARAJANAGAR

638  
MARKS  
LEKHASHREE N S

NEET-2024 | GIMS - GADAG

638  
MARKS  
SANGAMESH APPANNA MAGADUM

NEET-2022 | MMCRI, MYSORE

638  
MARKS  
NATARAJ K V

NEET-2024 | RIMS - RAICHUR

637  
MARKS  
BUSHRA Z K

NEET-2022 | BMC, BANGALORE

637  
MARKS  
TEJA A

NEET-2022 | BMC, BANGALORE

637  
MARKS  
AKASH S PATHRI

SUCCESS IS OUR CONSISTENT MANTRA, NO MATTER THE EXAM.

AND MANY MORE...



# DR PU COLLEGE

Approved by Board of Pre-University Education Karnataka (AN-1037)



**ASHOK PU COLLEGE**  
Approved by Board of Pre-University Education, Karnataka



**INDO SUNRISE PU COLLEGE**  
Approved by Board of Pre-University Education, Karnataka - BB 0212

## II PU SCIENCE ANNUAL EXAM - 2026 TOPPERS

 <b>591</b> MARKS DEEPTHI T M App No. 20269156020	 <b>591</b> MARKS SINCHANA R App No. 20269156317	 <b>591</b> MARKS DIVYASHREE A App No. 20269235504	 <b>590</b> MARKS SAMRUDDI SADALAPUR App No. 20269156279	 <b>589</b> MARKS NANDINI App No. 20269156179	 <b>589</b> MARKS PUNARAV App No. 20269154533	 <b>589</b> MARKS HARSHITH P App No. 20269235547
 <b>588</b> MARKS KRISHNA PRASAD D M App No. 20269154352	 <b>587</b> MARKS SOUMYAMANI P L App No. 20269156330	 <b>587</b> MARKS TARUN A M App No. 20269154703	 <b>587</b> MARKS T L SHILPA App No. 20269154908	 <b>586</b> MARKS KUNDAN KRISHNA App No. 20269154353	 <b>586</b> MARKS VARSHA CHANNABASU M App No. 20269235936	 <b>586</b> MARKS GANGOTRI RAMAPPA B App No. 20269235524
 <b>585</b> MARKS SHREYA PATIL App No. 20269156313	 <b>585</b> MARKS MALLIKARJUNA PATIL App No. 20269154386	 <b>585</b> MARKS SHARAN KUMAR M S App No. 20269154623	 <b>585</b> MARKS PRAJWAL V HIREMATH App No. 20269154513	 <b>585</b> MARKS SIRI PARTHIPALLI GOPAL App No. 20269156322	 <b>585</b> MARKS GADHADHAR P App No. 20269154256	 <b>585</b> MARKS NEHA P App No. 20269156192
 <b>585</b> MARKS SREEDHAR NANDHAN REDDY M App No. 20269235872	 <b>584</b> MARKS BHUVII ASHOK AJARADDI App No. 20269155988	 <b>584</b> MARKS CHANDANA M App No. 20269155997	 <b>584</b> MARKS NEHA N App No. 20269156191	 <b>584</b> MARKS DEEPTHI J App No. 20269156019	 <b>584</b> MARKS SHASHANK A Y App No. 20269156269	 <b>584</b> MARKS SPOORTHI B R App No. 20269155834
 <b>584</b> MARKS G HEMA CHANDANA App No. 20269156041	 <b>583</b> MARKS SADIYA ISHRATH App No. 20269155266	 <b>583</b> MARKS VAISHNAVI M App No. 20269156370	 <b>583</b> MARKS ROHITHA T V App No. 20269156259	 <b>583</b> MARKS ADARSH M S App No. 20269154097	 <b>583</b> MARKS MOHAN G V App No. 20269235691	

ASHOK COMPOSITE PU COLLEGE - AN 0661  
ASHOK GIRLS PU COLLEGE - AN 1003  
INDO SUNRISE PU COLLEGE - BB 0212 (SCIENCE)

# 100% PASS

## EXEMPLARY PERFORMANCE IN THE JEE MAIN - 2026 PHASE - I

 <b>98.81</b> TEJAS KENCHAPPA	 <b>98.10</b> REDDY SRIHARI V	 <b>97.75</b> MANOJ H	 <b>97.34</b> PAVAN R	 <b>97.21</b> AKASH J	 <b>96.43</b> P SANJANA SHREE
-------------------------------------	-------------------------------------	-----------------------------	-----------------------------	-----------------------------	-------------------------------------

## JEE MAIN - 2025 ACHIEVERS

 <b>99.42</b> APP.NO. 250310097015 NANDISH M	 <b>99.24</b> APP.NO. 250310925539 JAYANTH K S	 <b>97.93</b> APP.NO. 250310295805 THANMAY L	 <b>97.86</b> APP.NO. 250310461214 SUMITH GOWDA D V	 <b>97.67</b> APP.NO. 250310701826 HARSH B CHOUGALA
 <b>97.63</b> APP.NO. 250310059123 MOKSHALAKSHMI J	 <b>97.39</b> APP.NO. 250310057681 PREETHI S	 <b>96.94</b> APP.NO. 250310088778 SHREEYA S S	 <b>96.55</b> APP.NO. 250311007832 VIJAY M	 <b>96.23</b> APP.NO. 250311024674 YASHAS N

**NELMANGALA**  
LTM BOYS CAMPUS  
DASANPURA  
#2/5, Narayanappa Palya,  
Dasanpura, Tumkur Road,  
Bangalore - 560 062.  
**+91 95133 30438**  
**+91 81399 66644**  
**+91 99805 33120**

**JALAHALLI**  
#42, 100FT ROAD,  
KAMMAGONDANAHALLI,  
JALAHALLI WEST, BENGALURU - 560 015  
**+91 90080 30463**  
**+91 90080 30896**  
**+91 95133 30437**

**HOSAKOTE**  
LTM BOYS CAMPUS :- Defence Colony, Virognagar,  
Cheemasandra, Avalahalli South, Hoskote - 560049  
LTM GIRLS CAMPUS :- 1st Main Road,  
Beside Adithya PU College,  
4th Cross, TG Extension, Hoskote.  
**+91 97413 32998**  
**+91 81473 97999**  
**+91 95355 27713**