

NTA CUET (UG) - 2026

Sample Paper-3

Section II - Mathematics

Time Allowed : 60 Minutes

Marks : 200

General instructions:

- (i) For every correct answer, 5 marks will be awarded.
- (ii) 1 mark will be deducted for every wrong answer.
- (iii) The question paper has two sections

Section A (Common) : 15 mandatory questions covering both Mathematics and Applied Mathematics

Section B1 (Core Mathematics) : 35 questions out of which 25 questions are compulsory

Section B2 (Applied Mathematics) : 35 questions on Applied mathematics out of which 25 questions are compulsory.

(iv) Out of **Section B1 and Section B2**, the candidate has to **attempt 25 questions only in any one section.**

① Number of Questions to be answered : **15+25.**

② This Sample paper is prepared for the students of **Core Mathematics**; therefore it does **not** contain Section B2.

Section A : Common (Compulsory Section)

01. If $\vec{a} = 2\hat{i} - \hat{j} + \hat{k}$ and $\vec{b} = \hat{i} + \hat{j} - \hat{k}$, then \vec{a} and \vec{b} are
 (a) collinear vectors which are not parallel (b) parallel vectors
 (c) perpendicular vectors (d) unit vectors

02. For the matrix $A = \begin{bmatrix} 3 & 0 & 0 \\ 0 & -1 & 0 \\ 0 & 0 & -2 \end{bmatrix}$, match List-I with List-II.

List-I	List-II
(A) Matrix A is	(I) $\begin{bmatrix} 3^{-1} & 0 & 0 \\ 0 & -1 & 0 \\ 0 & 0 & -2^{-1} \end{bmatrix}$
(B) $\det.(A) =$	(II) a diagonal matrix
(C) A^{-1} is given by	(III) I_3
(D) $A^{-1}A =$	(IV) 6

Choose the **correct** answer from the options given below.

- (a) (A)-(IV), (B)-(II), (C)-(I), (D)-(III) (b) (A)-(II), (B)-(IV), (C)-(I), (D)-(III)
 (c) (A)-(II), (B)-(III), (C)-(IV), (D)-(I) (d) (A)-(IV), (B)-(III), (C)-(I), (D)-(II)
03. $\int_{-a}^a f(x)dx = 0$, if
 (a) $f(-x) = f(x)$ (b) $f(-x) = -f(x)$ (c) $f(a-x) = f(x)$ (d) $f(a-x) = -f(x)$
04. The derivative of 2^x w.r.t. 3^x is
 (a) $\left(\frac{3}{2}\right)^x \frac{\log 2}{\log 3}$ (b) $\left(\frac{2}{3}\right)^x \frac{\log 3}{\log 2}$ (c) $\left(\frac{2}{3}\right)^x \frac{\log 2}{\log 3}$ (d) $\left(\frac{3}{2}\right)^x \frac{\log 3}{\log 2}$
05. The integrating factor of the differential equation $(x + 2y^2) \frac{dy}{dx} = y$, ($y > 0$) is

- (a) $\frac{1}{x}$ (b) x (c) y (d) $\frac{1}{y}$

06. Which of the following statements is true for the function $f(x) = \begin{cases} x^2 + 3, & \text{if } x \neq 0 \\ 1, & \text{if } x = 0 \end{cases}$?

- (a) $f(x)$ is continuous and differentiable $\forall x \in \mathbb{R}$
 (b) $f(x)$ is continuous $\forall x \in \mathbb{R}$
 (c) $f(x)$ is continuous and differentiable $\forall x \in \mathbb{R} - \{0\}$
 (d) $f(x)$ is discontinuous at infinitely many points

07. If inverse of matrix $\begin{bmatrix} 7 & -3 & -3 \\ -1 & 1 & 0 \\ -1 & 0 & 1 \end{bmatrix}$ is the matrix $\begin{bmatrix} 1 & 3 & 3 \\ 1 & \lambda & 3 \\ 1 & 3 & 4 \end{bmatrix}$, then value of λ is

- (a) -4 (b) 1 (c) 3 (d) 4

08. The function $f(x) = kx - \sin x$ is strictly increasing for

- (a) $k > 1$ (b) $k < -1$ (c) $k > -1$ (d) $k < -1$

09. The Cartesian equation of the line passing through the point $(1, -3, 2)$ and parallel to the line $\vec{r} = (2 + \lambda)\hat{i} + \lambda\hat{j} + (2\lambda - 1)\hat{k}$ is

- (a) $\frac{x-1}{2} = \frac{y+3}{0} = \frac{z-2}{-1}$ (b) $\frac{x+1}{1} = \frac{y-3}{1} = \frac{z+2}{2}$
 (c) $\frac{x+1}{2} = \frac{y-3}{0} = \frac{z+2}{-1}$ (d) $\frac{x-1}{1} = \frac{y+3}{1} = \frac{z-2}{2}$

10. A delivery company records the number of late deliveries per day. The corresponding probability distribution is given below in the table.

X	0	1	2	3
P(X)	0.2	0.5	0.2	0.1

Which conclusion is most appropriate?

- (a) Late deliveries are impossible (b) Exactly one late delivery is most likely
 (c) Three late deliveries occur every day (d) Two late deliveries are certain

11. If $\lambda = \tan^{-1}(1) + \cos^{-1}\left(-\frac{1}{2}\right) + \sin^{-1}\left(-\frac{1}{\sqrt{2}}\right)$, then $\sin(3\lambda) =$

- (a) -1 (b) $\frac{1}{2}$ (c) $\frac{\sqrt{3}}{2}$ (d) 0

12. Let a point C divides the line segment joining the points A $(\hat{i} + 2\hat{j} - \hat{k})$ and B $(-\hat{i} + \hat{j} + \hat{k})$ in the ratio 4:1 externally, then the position vector of C is

- (a) $\frac{-3\hat{i} + 6\hat{j} + 3\hat{k}}{5}$ (b) $\frac{2\hat{j} - 5\hat{i} + 5\hat{k}}{3}$ (c) $\frac{5\hat{i} + 2\hat{j} + 5\hat{k}}{3}$ (d) None of these

13. On the set $\{1, 2, 3, 4\}$, how many reflexive relations can be defined?

- (a) 2^{16} (b) 2^{10} (c) 2^{12} (d) 2^6

14. Let R be an equivalence relation defined on $A \times A$ and given as $(a, b)R(c, d) \Rightarrow a + d = b + c$, where $A = \{1, 2, 3, \dots, 10\}$. Then which of the following is correct?

- (a) $[(3, 4)] = \{(1, 2), (2, 3), (4, 5), (5, 6), (6, 7), (7, 8), (8, 9), (9, 10)\}$
 (b) $[(3, 4)] = \{(1, 2), (2, 3), (3, 4), (4, 5), (5, 6), (6, 7), (7, 8), (8, 9), (9, 10)\}$
 (c) $[(3, 4)] = \{(1, 2), (2, 3), (3, 4), (4, 5), (5, 6), (6, 7), (7, 8), (8, 9)\}$
 (d) $[(3, 4)] = \{(1, 2), (2, 3), (3, 4), (4, 5), (5, 5), (6, 7), (7, 8), (8, 9), (9, 10)\}$

15. Range of $f(x) = \cos^{-1}\left(2 - \frac{3x}{4}\right) + \sin^{-1}\left(2 - \frac{3x}{4}\right)$ is
- (a) $[-1, 1]$ (b) $\left[-\frac{\pi}{2}, \frac{3\pi}{2}\right]$ (c) $\left\{\frac{\pi}{2}\right\}$ (d) $x \in [-1, 0]$

Section B1 : Core Mathematics

16. If E and F are two independent events such that $P(E) = \frac{2}{3}$, $P(F) = \frac{3}{7}$, then $P(E | \bar{F}) =$
- (a) $\frac{1}{6}$ (b) $\frac{1}{2}$ (c) $\frac{2}{3}$ (d) $\frac{7}{9}$
17. If $x = e^{\frac{x}{y}}$, then $\frac{dy}{dx} =$
- (a) $\frac{\log x}{(\log x - 1)^2}$ (b) $-\frac{1 - \log x}{(\log x)^2}$ (c) $\frac{\log x + 1}{(\log x)^2}$ (d) $\frac{1 - \log x}{(\log x)^2}$
18. Value of $\sec^2\left(\tan^{-1}\frac{1}{2}\right) + \operatorname{cosec}^2\left(\cot^{-1}\frac{1}{3}\right)$ is
- (a) $\frac{85}{36}$ (b) $\frac{58}{63}$ (c) $\frac{5}{6}$ (d) $\frac{13}{36}$
19. For an L.P.P., the objective function $Z = ax + by$ has maximum value of 42 at (4, 6) and the minimum value of 19 at (3, 2). Which of the following is **not** true?
- (a) $a + b = 8$ (b) $(a)^b = 243$ (c) $(b)^a = 125$ (d) $5a \neq 3b$
20. Let $f(x)$ be a continuous function on $[a, b]$ and differentiable on (a, b) . Then this function $f(x)$ is strictly increasing in (a, b) if
- (a) $f'(x) < 0, \forall x \in (a, b)$ (b) $f'(x) > 0, \forall x \in (a, b)$
 (c) $f'(x) = 0, \forall x \in (a, b)$ (d) $f(x) > 0, \forall x \in (a, b)$
21. The vectors of magnitude $8\sqrt{14}$ units that are perpendicular to the vectors $2\hat{i} - \hat{k}$ and $2\hat{j} + 3\hat{k}$ are
- (a) $\pm(8\hat{i} - 24\hat{j} + 16\hat{k})$ (b) $\pm(8\hat{i} + 24\hat{j} + 16\hat{k})$ (c) $\pm(8\hat{i} + 24\hat{j} - 16\hat{k})$ (d) $\pm(8\hat{i} + 16\hat{j} - 24\hat{k})$
22. If $\int_0^k \frac{dx}{\sqrt{9-x^2}} = \frac{\pi}{2}$, then the value of $\frac{k}{3}$ is
- (a) 3 (b) 0 (c) $\frac{\pi}{2}$ (d) 1
23. If the integrating factor of the differential equation $(1-x^2)\frac{dy}{dx} + xy = ax$, $-1 < x < 1$ is denoted by $f(x)$. Then $f\left(\frac{1}{2}\right) =$
- (a) $\frac{1}{\sqrt{1-x^2}}$ (b) $\frac{1}{\sqrt{x^2-1}}$ (c) $\frac{\sqrt{3}}{2}$ (d) $\frac{2}{\sqrt{3}}$
24. If $g(x)$ is continuous function satisfying $g(-x) = -g(x)$, then $\int_0^{2a} g(x)dx$ is equal to
- (a) 0 (b) $2 \int_0^a g(x)dx$ (c) $-\int_{-2a}^0 g(x)dx$ (d) $\int_{-a}^a g(x)dx$

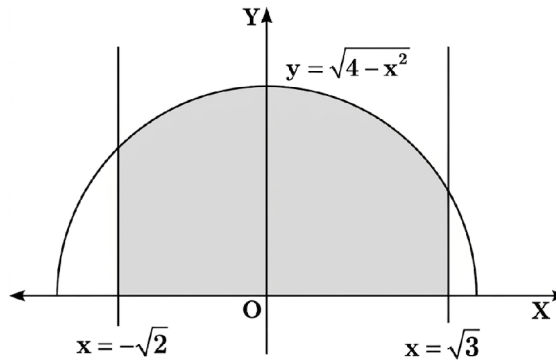
25. Let $I = \int \frac{1}{x[(\log x)^2 - 3\log x - 4]} dx$. Then $5I =$

- (a) $\frac{1}{5} \log \left| \frac{\log x - 4}{\log x + 1} \right| + C$ (b) $\frac{1}{5} \log \left| \frac{\log x + 4}{\log x - 1} \right| + C$
 (c) $\log \left| \frac{\log x + 4}{\log x - 1} \right| + C$ (d) $\log \left| \frac{\log x - 4}{\log x + 1} \right| + C$

26. Let $f : \mathbb{R} \rightarrow A$ defined by $f(x) = \frac{2x}{1+x^2}$ is an onto function. Then set A is

- (a) $[-1, 1]$ (b) \mathbb{R} (c) $[-1, 1]$ (d) $(-1, 1)$

27. In the figure given below, the area (in square units) of shaded region is



- (a) $1 + \frac{\sqrt{3}}{2} + \frac{7\pi}{6}$
 (b) $1 - \frac{\sqrt{3}}{2} + \frac{7\pi}{6}$
 (c) $\frac{\sqrt{3}}{2} + \frac{7\pi}{6}$
 (d) $1 + \frac{\sqrt{3}}{2} - \frac{7\pi}{6}$

28. If $A = \begin{bmatrix} -1 & a & 2 \\ 1 & 2 & x \\ 3 & 1 & 1 \end{bmatrix}$ and $A^{-1} = \begin{bmatrix} 1 & -1 & 1 \\ -8 & 7 & -5 \\ b & y & 3 \end{bmatrix}$, then the value of $(a+x) - (b+y)$ is

- (a) 7 (b) 3 (c) 9 (d) 2

29. If the lines $\frac{x-1}{-3} = \frac{y-2}{2k} = \frac{z-3}{2}$ and $\frac{x-1}{3k} = \frac{y-1}{1} = \frac{z-6}{-7}$ are perpendicular to each other, then the value of '-k' is

- (a) -2 (b) 1 (c) 2 (d) -1

30. Bag I contains 3 red and 4 black balls. Bag II contains 5 red and 2 black balls. Two balls are transferred at random from Bag I to Bag II and then a ball is drawn at random from Bag II. Then the probability that the drawn ball is red in colour, is

- (a) $\frac{22}{63}$ (b) $\frac{41}{63}$ (c) $\frac{23}{63}$ (d) None of these

31. For any two vectors \vec{a} and \vec{b} , which of the following statements is always true?

- (a) $\vec{a} \cdot \vec{b} \geq |\vec{a}| |\vec{b}|$ (b) $\vec{a} \cdot \vec{b} = |\vec{a}| |\vec{b}|$ (c) $\vec{a} \cdot \vec{b} \leq |\vec{a}| |\vec{b}|$ (d) $\vec{a} \cdot \vec{b} < |\vec{a}| |\vec{b}|$

32. Let $\int \frac{d(1 + \log x)}{\sin^2(1 + \log x)} = f(x) + C$. Then $f(x) =$

- (a) $\tan(1 + \log x)$ (b) $-\tan(1 + \log x)$ (c) $\cot(1 + \log x)$ (d) $-\cot(1 + \log x)$

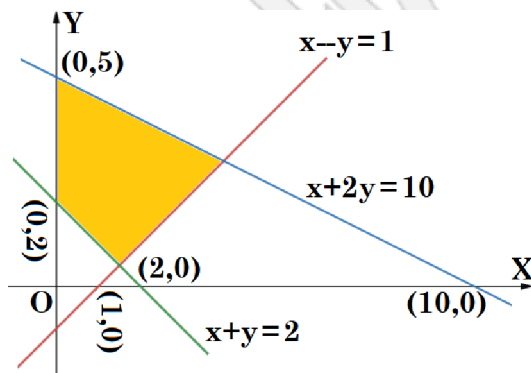
33. If \vec{a} and \vec{b} are two vectors such that $|\vec{a}| = 1$, $|\vec{b}| = 2$ and $\vec{a} \cdot \vec{b} = \sqrt{3}$, then the angle between $2\vec{a}$ and $-\vec{b}$ is

- (a) 30° (b) 60° (c) 150° (d) 330°

34. The number of corner points of the feasible region determined by constraints $x + y \geq 4$, $x \geq 0$, $y \geq 0$ is

- (a) 0 (b) 1 (c) 2 (d) 3

35. For two matrices A and B, given that $A^{-1} = \frac{1}{4}B$, then inverse of (4A) is
 (a) 4B (b) B (c) $\frac{1}{4}B$ (d) $\frac{1}{16}B$
36. Let $A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$ be a square matrix such that $\text{adj}A = A$. Then $(a + b + c + d)$ is equal to
 (a) 2a (b) 2b (c) 2c (d) 0
37. Let a line passes through the points $(-1, -3, 4)$ and $(0, -2, 6)$. Then its vector equation will be
 (a) $\frac{x+1}{1} = \frac{y+3}{1} = \frac{z-4}{2}$ (b) $\vec{r} = \hat{i} + \hat{j} + 2\hat{k} + \lambda(-\hat{i} - 3\hat{j} + 4\hat{k})$
 (c) $\vec{r} = \hat{i} + 3\hat{j} - 4\hat{k} + \lambda(\hat{i} + \hat{j} + 2\hat{k})$ (d) $\vec{r} = -\hat{i} - 3\hat{j} + 4\hat{k} + \lambda(\hat{i} + \hat{j} + 2\hat{k})$
38. If the sum of all the elements of a 3×3 scalar matrix is 9, then the product of all its elements is
 (a) 0 (b) 9 (c) 27 (d) 729
39. Let θ be the angle between the lines $\frac{5-x}{-7} = \frac{y+2}{-5} = \frac{z}{1}$ and $\frac{x}{1} = \frac{y}{2} = \frac{z}{3}$. Then $(2\theta) =$
 (a) $\frac{\pi}{2}$ (b) π (c) 2π (d) 0
40. ABCD is a rhombus whose diagonals intersect at E. Then $\vec{EA} + \vec{EB} + \vec{EC} + \vec{ED} =$
 (a) $\vec{0}$ (b) \vec{AD} (c) $2\vec{BD}$ (d) $2\vec{AD}$
41. Let $A = \begin{bmatrix} 0 & 2x-1 & \sqrt{x} \\ 1-2x & 0 & 2\sqrt{x} \\ -\sqrt{x} & -2\sqrt{x} & 0 \end{bmatrix}$, where $x \in \mathbb{R}^+$, and $|A| = m$. Then the value of $(2026)^m$ is
 (a) $(2026)^2$ (b) 0 (c) $(2026)^3$ (d) 1
42. The set of all points where the function $f(x) = x + |x|$ is differentiable, is
 (a) $x \in (0, \infty)$ (b) $x \in (-\infty, 0)$
 (c) $x \in (-\infty, 0) \cup (0, \infty)$ (d) $x \in (-\infty, \infty)$
43. The feasible region corresponding to the linear constraints of a Linear Programming Problem is given below.



Which of the following is **not** a constraint to the given Linear Programming Problem?

- (a) $x + y \geq 2$
 (b) $x + 2y \leq 10$
 (c) $x - y \geq 1$
 (d) $x - y \leq 1$
44. The direction cosines of a line are $\langle \frac{1}{c}, \frac{1}{c}, \frac{1}{c} \rangle$. Then
 (a) $0 < c < 1$ (b) $c > 2$ (c) $c = \pm\sqrt{2}$ (d) $c = \pm\sqrt{3}$
45. If $f(x) = \frac{1}{4x^2 + 2x + 1}$; $x \in \mathbb{R}$, then the maximum value of $f(x)$ is

- (a) $\frac{3}{4}$ (b) $\frac{4}{3}$ (c) 1 (d) $-\frac{1}{4}$

46. Consider the given functions in List I. Then Match List-I with List-II.

List-I	List-II
(A) $ x - 5 $	(I) is continuous at $x = 0$, if $k = a + b$
(B) $f(x) = \begin{cases} \frac{\log(1+ax) - \log(1-bx)}{x}, & \text{if } x \neq 0 \\ k, & \text{if } x = 0 \end{cases}$	(II) is continuous at all $x \in \mathbb{R}$
(C) $x - [x]$	(III) is defined in $x \in \left(0, \frac{1}{3}\right)$
(D) $f(x) = \frac{\log x}{\sqrt{1-9x^2}}$	(IV) is discontinuous at all $x \in \mathbb{Z}$

Choose the **correct** answer from the options given below.

- (a) (A)-(I), (B)-(II), (C)-(III), (D)-(IV) (b) (A)-(I), (B)-(III), (C)-(II), (D)-(IV)
 (c) (A)-(II), (B)-(I), (C)-(IV), (D)-(III) (d) (A)-(II), (B)-(IV), (C)-(III), (D)-(I)

47. A function $f : \mathbb{R} \rightarrow \mathbb{R}$ is defined by $f(x) = \begin{cases} e^{-2x}, & x < \ln \frac{1}{2} \\ 4, & \ln \frac{1}{2} \leq x \leq 0 \\ e^{-2x}, & x > 0 \end{cases}$

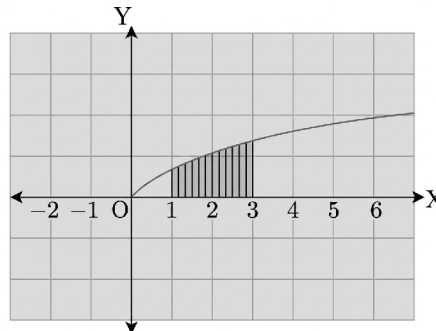
Which one of the following statements is true about the function at the point $x = \ln \frac{1}{2}$?

- (a) $f(x)$ is not continuous but differentiable
 (b) $f(x)$ is continuous but not differentiable
 (c) $f(x)$ is neither continuous nor differentiable
 (d) $f(x)$ is both continuous as well as differentiable

48. Shown below is the curve defined by the equation $y = \log(x+1)$ for $x \geq 0$.

Which of these is the area (in Sq. units) of the shaded region?

- (a) $6 \log(2) - 2$
 (b) $6 \log(2) - 6$
 (c) $6 \log(2)$
 (d) $5 \log(2)$



49. The integral $\int \sqrt{\frac{x}{1-x^3}} dx$; $x \in (0, 1)$ equals

- (a) $\frac{2}{3} \sin^{-1}\left(x^{\frac{3}{2}}\right) + C$ (b) $\sin^{-1}\left(x^{\frac{3}{2}}\right) + C$ (c) $\frac{2}{3} \sin^{-1}\left(x^{\frac{2}{3}}\right) + C$ (d) $\frac{1}{3} \sin^{-1}\left(x\sqrt{x}\right) + C$

50. If $(a+bx)e^{\frac{y}{x}} = x$, then $x \frac{d^2y}{dx^2} =$

(a) $\left(\frac{b}{a+bx}\right)^2$

(b) $\left(\frac{a}{a+bx}\right)^2$

(c) $\frac{1}{(a+bx)^2}$

(d) $\frac{a}{(a+bx)^2}$

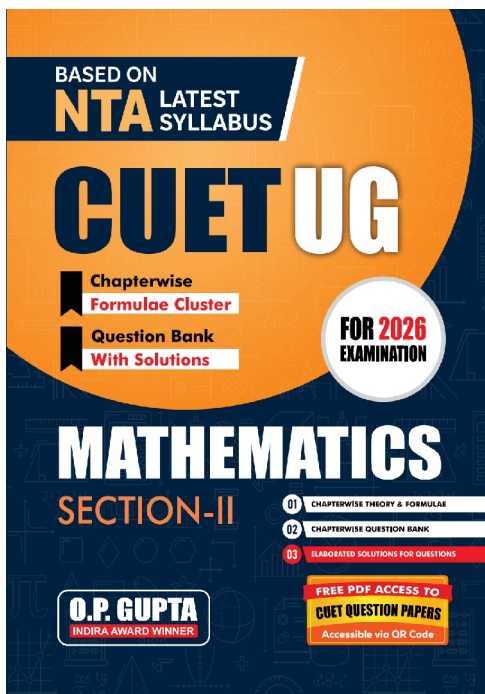
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| 08. (a) | 09. (d) | 10. (b) | 11. (d) | 12. (b) | 13. (c) | 14. (b) |
| 15. (c) | 16. (c) | 17. (b) | 18. (a) | 19. (d) | 20. (b) | 21. (a) |
| 22. (d) | 23. (d) | 24. (c) | 25. (d) | 26. (c) | 27. (a) | 28. (b) |
| 29. (c) | 30. (b) | 31. (c) | 32. (d) | 33. (c) | 34. (c) | 35. (d) |
| 36. (a) | 37. (d) | 38. (a) | 39. (b) | 40. (a) | 41. (d) | 42. (c) |
| 43. (c) | 44. (d) | 45. (b) | 46. (c) | 47. (b) | 48. (a) | 49. (a) |
| 50. (b) | | | | | | |

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ABOUT THE AUTHOR

O.P. GUPTA having taught math passionately over a decade, has devoted himself to this subject. Every book, study material or practice sheets, tests he has written, tries to teach serious math in a way that allows the students to learn math without being afraid. Undoubtedly his mathematics books are best sellers on [amazon](#) and [Flipkart](#).

His resources have helped students and teachers for a long time across the country. He has contributed in CBSE Question Bank (issued in April 2021). Mr Gupta has been invited by many educational institutions for hosting sessions for the students of senior classes. Being qualified as an electronics & communications engineer, he has pursued his graduation later on with mathematics from University of Delhi due to his passion towards mathematics. He has been honored with the prestigious INDIRA AWARD by the Govt. of Delhi for excellence in education.

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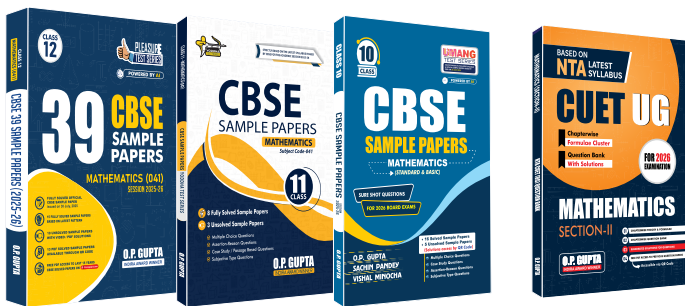
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