

# NTA CUET (UG) - 2026

## Sample Paper-1

### 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.

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#### Section A : Common (Compulsory Section)

01. The derivative of which of the following functions is  $-\frac{2x}{1+x^4}$  ?  
 (a)  $\tan^{-1} x^2$                       (b)  $-\cot^{-1} x^2$                       (c)  $-\tan^{-1} x^2$                       (d)  $-\tan^{-1} 2x$
02. If  $\begin{vmatrix} 2 & 3 & 2 \\ x & x & x \\ 4 & 9 & 1 \end{vmatrix} + 3 = 0$ , then  $x =$   
 (a) 3                                      (b) 0                                      (c) 1                                      (d) -1
03.  $\int_0^{\frac{\pi}{2}} \frac{\cos x}{\sin x + \cos x} dx =$   
 (a)  $\frac{\pi}{2}$                                       (b)  $\frac{\pi}{4}$                                       (c) 1                                      (d)  $-\frac{\pi}{4}$
04.  $\frac{d}{dx} \left[ \int_0^{x^2} \frac{dt}{t^2 + 4} \right] =$   
 (a)  $\frac{2x}{x^4 + 4}$                                       (b)  $-\frac{2x}{x^4 + 4}$                                       (c)  $-\frac{2x}{x^4 + 1}$                                       (d)  $\frac{2x}{x^4 + 1}$
05. The area of the region bounded by the y-axis,  $y = \cos x$  and  $y = \sin x$ ,  $0 \leq x \leq \frac{\pi}{2}$  is  
 (a)  $(\sqrt{2} - 1)$  sq. units                                      (b)  $(\sqrt{2} + 1)$  sq. units  
 (c)  $\sqrt{2}$  sq. units                                      (d)  $2(\sqrt{2} - 1)$  sq. units
06. The corner points of the feasible region determined by the system of linear constraints are  $(0, 0)$ ,  $(0, 40)$ ,  $(20, 40)$ ,  $(60, 20)$ ,  $(60, 0)$ . The objective function is  $Z = 4x + 3y$ . Compare the quantity in Column A and Column B.

Column A	Column B
Maximum to Z	325

- (a) The quantity in column A is greater
- (b) The quantity in column B is greater
- (c) The two quantities are equal
- (d) The relationship cannot be determined on the basis of the information provided

07. The value of  $\int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} (x^3 + x \cos x + \tan^5 x + 1) dx$  is

- (a) 0
- (b) 2
- (c)  $\pi$
- (d) 1

08. Let  $A = [a_{ij}]$  be a square matrix of order  $(2n + 1)$ ,  $n \in \mathbb{N}$  such that  $A + A^T = O$ . Then the value of  $|A|$  is

- (a) 0
- (b)  $\pm 1$
- (c)  $-1$  only
- (d)  $1$  only

09. Function  $f$  defined by  $f(x) = e^{-x}$  is strictly increasing when

- (a)  $x \in \phi$
- (b)  $x \in (-\infty, 0)$
- (c)  $x \in [0, \infty)$
- (d)  $x \in (-\infty, \infty)$

10. The probability distribution of a random variable  $X$  is

X	0	1	2	3	4
P(X)	0.1	k	2k	k	0.1

where  $k$  is some unknown constant.

The probability that the random variable  $X$  takes the value 2 is

- (a)  $\frac{1}{5}$
- (b)  $\frac{2}{5}$
- (c)  $\frac{4}{5}$
- (d) 1

11. For a matrix  $A = [a_{ij}]_{n \times n}$ , we always have

- (a)  $|\text{adj } A| = |A|^{n-1}$
- (b)  $|A| = |\text{adj } A|^{n-1}$
- (c)  $A(\text{adj } A) = |A|$
- (d)  $|A^{-1}| = -\frac{1}{|A|}$

12. Distance of the point  $(\alpha, \beta, \gamma)$  from  $y$ -axis is

- (a)  $\beta$
- (b)  $|\beta|$
- (c)  $\sqrt{\alpha^2 + \gamma^2}$
- (d)  $|\beta| + |\gamma|$

13. Consider a non-empty set consisting of children in a family and a relation  $R$  defined as  $aRb$  if  $a$  is brother of  $b$ . Then  $R$  is

- (a) symmetric but not transitive
- (b) not symmetric
- (c) symmetric but not reflexive
- (d) both symmetric and transitive

14. Which of the following statements is **not** true about equivalence classes  $A_i$ , ( $i = 1, 2, \dots, n$ ) formed by an equivalence relation  $R$  defined on a set  $A$ ?

- (a)  $\bigcup_{i=1}^n A_i = A$
- (b)  $A_i \cap A_j \neq \phi, i \neq j$
- (c)  $x \in A_i$  and  $x \in A_j \Rightarrow A_i = A_j$
- (d) All elements of  $A_i$  are related to each other, for all  $i$

15. The value of  $\sin^{-1}\left[\cos\left(\frac{33\pi}{5}\right)\right]$  is
- (a)  $\frac{3\pi}{5}$                       (b)  $-\frac{7\pi}{5}$                       (c)  $\frac{\pi}{10}$                       (d)  $-\frac{\pi}{10}$

**Section B1 : Core Mathematics**

16. If A and B are two events such that  $P(A) \neq 0$  and  $P(B|A) = 1$ , then
- (a)  $A \subset B$                       (b)  $B \subset A$                       (c)  $B = \phi$                       (d)  $A = \phi$
17. A ladder, 5 m long, standing on a horizontal floor, leans against a vertical wall. If the top of the ladder slides downwards at the rate of 10 cm/sec, then the rate at which the angle between the floor and the ladder is decreasing when lower end of ladder is 2 m from the wall is
- (a)  $\frac{1}{10}$  radian/sec                      (b)  $\frac{1}{20}$  radian/sec                      (c) 20 radian/sec                      (d) 10 radian/sec
18. If the function  $f(x) = \begin{cases} mx + 1, & \text{if } x \leq \frac{\pi}{2} \\ \sin x + n, & \text{if } x > \frac{\pi}{2} \end{cases}$  is continuous at  $x = \frac{\pi}{2}$ , then
- (a)  $m = \frac{n\pi}{2} + 1$                       (b)  $m = 1, n = 0$                       (c)  $m = n = \frac{\pi}{2}$                       (d)  $2n = m\pi$
19. Feasible region in the set of points which satisfy
- (a) the objective functions  
 (b) some the given constraints  
 (c) all of the given constraints  
 (d) some of the given constraints and objective function both
20. Let  $\vec{a} = 3\hat{i} + 2\hat{j} + 2\hat{k}$  and  $\vec{b} = \hat{i} + 2\hat{j} - 2\hat{k}$  be two vectors. If a vector perpendicular to both the vectors  $\vec{a} + \vec{b}$  and  $\vec{a} - \vec{b}$  has the magnitude 12, then one such vector is
- (a)  $4(2\hat{i} + 2\hat{j} - \hat{k})$                       (b)  $4(2\hat{i} - 2\hat{j} + \hat{k})$                       (c)  $4(2\hat{i} + 2\hat{j} + \hat{k})$                       (d)  $4(2\hat{i} - 2\hat{j} - \hat{k})$
21. Let  $\vec{\alpha} = (\lambda - 2)\vec{a} + \vec{b}$  and  $\vec{\beta} = (4\lambda - 2)\vec{a} + 3\vec{b}$ , where  $\vec{a}$  and  $\vec{b}$  are given to be non collinear. Then the value of  $\lambda$  for which vectors  $\vec{\alpha}$  and  $\vec{\beta}$  are collinear, is
- (a) 4                      (b) -4                      (c) 3                      (d) -3
22. The number of arbitrary constants in the particular solution of the D.E.  $\log\left(\frac{dy}{dx}\right) = 3x + 4y$ ;  $y(0) = 0$  is/are
- (a) 2                      (b) 1                      (c) 0                      (d) 3
23. The point of inflection of a function  $f(x)$  is point where
- (a)  $f'(x) = 0$  and  $f'(x)$  changes its sign from positive to negative from left to right of that point  
 (b)  $f'(x) = 0$  and  $f'(x)$  changes its sign from negative to positive from left to right of that point  
 (c)  $f'(x) = 0$  and  $f'(x)$  does not change its sign from left to right of that point  
 (d)  $f'(x) \neq 0$

24.  $\int \frac{dx}{(\sin x)^{\frac{3}{4}} \cdot (\cos x)^{\frac{5}{4}}} =$
- (a)  $\frac{1}{\sqrt[4]{\cot x}} + c$       (b)  $\frac{4}{\sqrt[4]{\cot x}} + c$       (c)  $-\frac{4}{\sqrt[4]{\cot x}} + c$       (d)  $-\frac{1}{\sqrt[4]{\cot x}} + c$
25. If  $f(x)$  is continuous for all real values of  $x$ , then  $\int_{\frac{a}{4}}^{\frac{b}{4}} f(4x) dx$  equals
- (a)  $4 \int_a^b f(x) dx$       (b)  $\frac{1}{4} \int_{4a}^{4b} f(x) dx$       (c)  $\frac{1}{4} \int_a^b f(x) dx$       (d)  $4 \int_{4a}^{4b} f(x) dx$
26. The area under the curve  $x^2 = y$  between the line  $x = 0$  and  $x = k$  is 9 square units. Which of the following could be the correct value of  $k$ ?
- (a)  $\frac{3}{2}$       (b) 9      (c) 3      (d)  $\frac{9}{2}$
27. If  $A$  is a square matrix of order  $n$ , then the number of minors in the determinant of  $A$  are
- (a)  $n$       (b)  $n-1$       (c)  $n^2$       (d)  $n^n$
28. A bird is sitting on an electric wire (assuming that the wire has no slack). If the equation of wire is given by  $\frac{x+1}{-3} = y-2 = z$  and the position of bird is at a point  $P$  such that the distance between  $P$  and  $Q(-1, 2, 0)$  is  $6\sqrt{11}$  units, then the position of bird (i.e., coordinates of point  $P$ ) will be
- (a)  $(-19, 8, 6), (17, -4, -6)$       (b)  $(-19, 8, -6), (17, -4, 6)$   
 (c)  $(19, 8, 6), (17, 4, -6)$       (d)  $(-19, -8, 6), (17, 4, 6)$
29. If  $A = \begin{bmatrix} 0 & r & -2 \\ 3 & 5 & p \\ q & -4 & 0 \end{bmatrix}$  is a symmetric matrix, then  $\left(\frac{q+p}{r}\right) =$
- (a)  $\frac{2}{3}$       (b)  $-2$       (c)  $\frac{3}{2}$       (d) 2
30. For the matrix  $A = \begin{pmatrix} 1 & 0 & 0 \\ 0 & 5 & 0 \\ 0 & 0 & 4 \end{pmatrix}$ , the inverse of matrix  $A$  (i.e.,  $A^{-1}$ ) is
- (a)  $\text{diag.}(1 \ 5 \ 4)$       (b)  $\text{diag.}(4 \ 5 \ 1)$       (c)  $\text{diag.}\left(1 \ \frac{1}{5} \ \frac{1}{4}\right)$       (d)  $\text{diag.}(-1 \ -5 \ -4)$
31. A function  $f(x) = \log\left(\frac{x^2+1}{x-2}\right)$  is
- (a) strictly increasing in  $x \in (2, 2+\sqrt{5})$  and strictly decreasing in  $x \in (2+\sqrt{5}, \infty)$   
 (b) strictly decreasing in  $x \in (2, 2+\sqrt{5})$  and strictly increasing in  $x \in (2+\sqrt{5}, \infty)$   
 (c) strictly decreasing in  $x \in (2-\sqrt{5}, 2)$  and strictly increasing in  $x \in (2, \infty)$

(d) strictly decreasing in  $x \in (2, \infty)$  and strictly increasing in  $x \in (2 - \sqrt{5}, 2)$

32. If  $f(2a - x) = f(x)$ , then  $\int_0^{2a} x f(x) dx$  is equal to

- (a)  $\frac{3a}{2} \int_a^{2a} f(x) dx$       (b)  $\frac{a}{2} \int_a^{2a} f(x) dx$       (c)  $\frac{3a}{2} \int_0^a f(x) dx$       (d)  $a \int_0^{2a} f(x) dx$

33. A drone flies in a straight path represented by the vector  $\vec{p} = 2\hat{i} + \hat{j} + 2\hat{k}$ . A passenger is sitting in a moving metro train whose track is defined by the vector equation  $\vec{r} = (1 + \lambda)\hat{i} + (2 - \lambda)\hat{j} + \lambda\hat{k}$ . The projected length of the drone's flight path on the train track

- (a) is  $\sqrt{3}$  units      (b) is  $\frac{4}{\sqrt{3}}$  units      (c) is  $\frac{3}{\sqrt{2}}$  units      (d) is  $\frac{5}{2\sqrt{3}}$  units

34. Let  $\vec{p} = 2\hat{i} + \hat{j} + 3\hat{k}$ ,  $\vec{q} = \hat{i} - 2\hat{j} + \hat{k}$  and  $\vec{r} = 4\hat{i} + \hat{j} - \hat{k}$  be three given vectors.

Then  $(3\vec{p} \cdot \hat{j})\hat{i} + (\vec{q} \cdot \hat{k})\hat{j} + (\vec{r} \cdot \vec{p})\hat{k} =$

- (a)  $3\hat{i} + \hat{j} - 6\hat{k}$       (b)  $3\hat{i} + \hat{j} + 6\hat{k}$       (c)  $3\hat{i} - \hat{j} + 6\hat{k}$       (d)  $3\hat{i} - \hat{j} - 6\hat{k}$

35. Consider the following Linear Programming Problem (L.P.P.).

Maximize  $Z = 5x + 2y$ , subject to the constraints  $x + y \leq 3$ ,  $x + y \geq 5$ ,  $x \geq 0$ ,  $y \geq 0$ .

Which of the following is true about the feasible region?

- (a) The feasible region is unbounded, and the minimum value of  $Z$  does not exist.  
 (b) The feasible region is bounded, and the minimum value of  $Z$  exists.  
 (c) The feasible region is non-empty and bounded.  
 (d) The feasible region is empty, and hence no solution exists.

36. A person observed the last 3 digits of your 6-digit security code. What is the probability that the person can correctly guess your entire security code in one attempt?

- (a)  $\frac{1}{10}$       (b)  $\frac{1}{10^2}$       (c)  $\frac{1}{10^3}$       (d)  $\frac{1}{10^6}$

37. The domain of  $f(x) = \sin^{-1} 2x + \cos 2x$  is  $x \in [m, n]$ . Then  $(n - m) =$

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

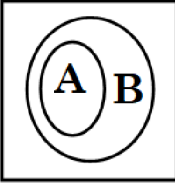
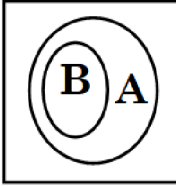
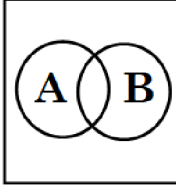
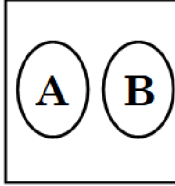
38.  $\int \left[ \frac{x-5}{x^3 - 9x^2 + 27x - 27} \right] e^x dx =$

- (a)  $\frac{e^x}{(x+3)^2} + C$       (b)  $-\frac{e^x}{(x-3)^2} + C$       (c)  $\frac{e^x}{(x-3)^2} + C$       (d)  $-\frac{e^x}{(x+3)^2} + C$

39. If  $x^y = e^x$ , then the value of  $\frac{dy}{dx}$ , at  $x = e^2$ , is

- (a)  $-\frac{1}{4}$       (b)  $\frac{1}{2}$       (c)  $-\frac{1}{2}$       (d)  $\frac{1}{4}$

40. If  $A = \begin{bmatrix} 1 & 12 & 4y \\ 6x & 5 & 2x \\ 8x & 4 & 6 \end{bmatrix}$  is a symmetric matrix, then  $\begin{vmatrix} 2x & 1 \\ 1 & y \end{vmatrix} =$

- (a) -15                      (b) 16                      (c) -16                      (d) 15
41. If A denotes the set of continuous functions and B denotes set of differentiable functions, then which of the following depicts the correct relation between set A and B?
- (a)  (b)  (c)  (d) 
42. The value of 'n', such that the differential equation given by  $\frac{dy}{dx} = \frac{x^2 + y^2}{x^n}$ ; where  $x, y \in \mathbb{R}^+$  is homogeneous, is
- (a) 0                      (b) 1                      (c) 2                      (d) 3
43.  $\int_{\frac{1}{2026}}^{\frac{2026}{x}} \frac{1}{x} \sin\left(x - \frac{1}{x}\right) dx$  equals
- (a)  $-\frac{1}{2026}$                       (b) 1                      (c) -1                      (d) 0
44. The line  $x = 1 + 5\mu, y = -5 + \mu, z = -6 - 3\mu$  passes through which of the following point?
- (a) (1, -5, 6)                      (b) (1, 5, 6)                      (c) (1, -5, -6)                      (d) (-1, -5, 6)
45. A factory produces two products X and Y. The profit earned by selling X and Y is represented by the objective function  $Z = 5x + 7y$ , where x and y are the number of units of X and Y respectively sold. Which of the following statement is correct?
- (a) The objective function maximizes the difference of the profit earned from products X and Y.  
 (b) The objective function measures the total production of products X and Y.  
 (c) The objective function maximizes the combined profit earned from selling X and Y.  
 (d) The objective function ensures the company produces more of product X than product Y.
46. For any two events A and B, if  $P(\bar{A}) = \frac{1}{2}, P(\bar{B}) = \frac{2}{3}$  and  $P(A \cap B) = \frac{1}{4}$ , then  $P(\bar{A} | \bar{B})$  equals
- (a)  $\frac{3}{8}$                       (b)  $\frac{8}{9}$                       (c)  $\frac{5}{8}$                       (d)  $\frac{1}{4}$
47.  $\sec^{-1}\left(\frac{\sqrt{3}}{2}\right) =$
- (a)  $\frac{\pi}{6}$                       (b)  $\frac{\pi}{3}$                       (c)  $\frac{5\pi}{6}$                       (d)  $\phi$
48. It is given that the area of the region bounded by the line  $y = mx$  ( $m > 0$ ), the curve  $x^2 + y^2 = 4$  and the x-axis in the first quadrant is  $\frac{\pi}{2}$  sq. units. Then the value of 'm' is
- (a) 2                      (b) 1                      (c) 3                      (d) 4
49. The relation  $R = \{(x, x), (x, y), (y, x), (y, z), (x, z)\}$  defined on the set  $\{x, y, z\}$  is
- (a) reflexive and symmetric but not transitive  
 (b) symmetric and transitive but not reflexive

- (c) transitive but neither reflexive nor symmetric  
 (d) not reflexive, not symmetric and not transitive
50. The vector  $\vec{a} = \hat{i} + x\hat{j} + 3\hat{k}$  is rotated through an angle  $\theta$  such that its magnitude is doubled, then  $\vec{a}$  becomes  $4\hat{i} + 2(2x - 1)\hat{j} + 2\hat{k}$ . The sum of all the possible values of  $x$  is
- (a)  $\frac{4}{3}$                       (b) 3                      (c) 4                      (d)  $\frac{3}{4}$

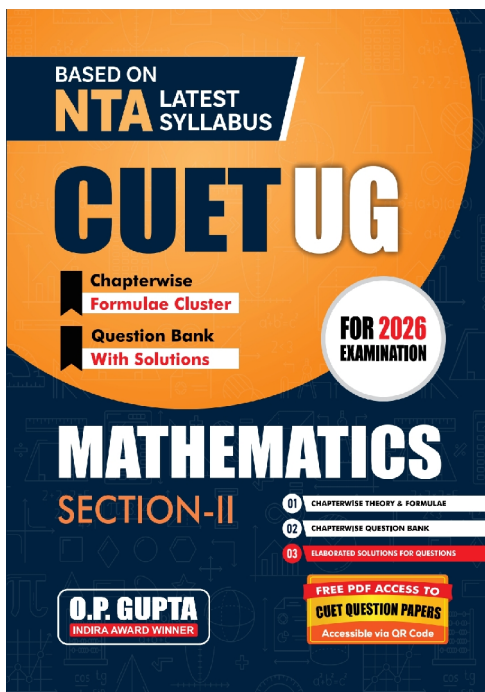
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| 01. (c) | 02. (d) | 03. (b) | 04. (a) | 05. (a) | 06. (b) | 07. (c) |
| 08. (a) | 09. (a) | 10. (b) | 11. (a) | 12. (c) | 13. (b) | 14. (b) |
| 15. (d) | 16. (a) | 17. (b) | 18. (d) | 19. (c) | 20. (d) | 21. (b) |
| 22. (c) | 23. (c) | 24. (b) | 25. (c) | 26. (c) | 27. (c) | 28. (a) |
| 29. (b) | 30. (c) | 31. (b) | 32. (d) | 33. (a) | 34. (b) | 35. (d) |
| 36. (c) | 37. (b) | 38. (c) | 39. (d) | 40. (d) | 41. (b) | 42. (c) |
| 43. (d) | 44. (c) | 45. (c) | 46. (c) | 47. (d) | 48. (b) | 49. (d) |
| 50. (a) |         |         |         |         |         |         |

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# Join Our Mathematics Learning & Teachers Community

To support **collaborative learning and resource sharing** in Mathematics, dedicated WhatsApp groups have been created for:

Maths Teachers Community	Students of Classes XI & XII	Students of Classes IX & X
		

**These groups aim to share:**

- ✓ Quality Mathematics Resources
- ✓ Board Exam Discussions & Solutions
- ✓ Important Practice Questions & Updates
- ✓ Healthy Academic Interaction

## ① How to Join?

Please **scan the QR-Code** corresponding to your category (Teachers / Class IX - X Students / Class XI - XII Students) to join the relevant group.

Alternatively, you can **touch the QR-Code** too, after opening in the Drive PDF App.

## ✪ Important Guidelines

- Teachers are requested NOT to join student groups.
  - Students are requested NOT to join teachers' groups.
- ☑ If you are already a member of any of our existing groups, please avoid joining another group to prevent repeated notifications of the same resources.  
Instead, you may share this opportunity with your colleagues or students who may benefit from these Mathematics learning communities.

With Regards

O.P. Gupta

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Founder & Mentor

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*Dedicated to helping students and teachers strengthen conceptual understanding and excel in Mathematics.*



## 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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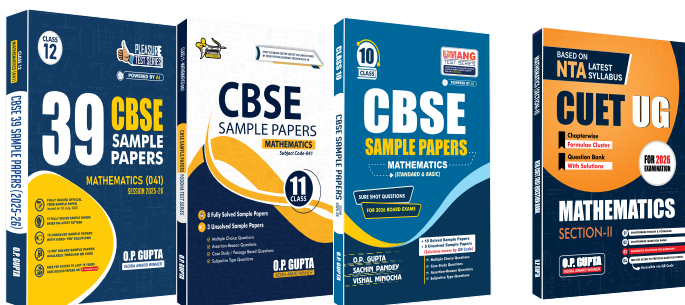
- ✓ Multiple Choice Questions
- ✓ Assertion Reason Questions



- ✓ Case Study Questions
- ✓ Answers for Exercises



- ✓ Detailed Step-by-step Solutions
- ✓ QR-Codes for more Resources



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