



# ASSERTION REASON TYPE QUESTIONS

For CBSE 2027 Exams - Mathematics - Class 10



$$V = \pi r^2 h$$

$$M = \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

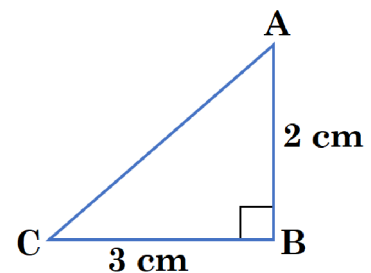
$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

In the following questions, a statement of **Assertion (A)** is followed by a statement of **Reason (R)**. Choose the correct answer out of the following choices.

- (a) Both A and R are true and R is the correct explanation of A.
- (b) Both A and R are true and R is not the correct explanation of A.
- (c) A is true but R is false.
- (d) A is false but R is true.

## ◆ Chapter-01 Real Numbers

- Q01. **Assertion (A)** : The perimeter of  $\triangle ABC$  is a rational number.  
**Reason (R)** : The sum of the squares of two rational numbers is always rational.



- Q02. **Assertion (A)** : The number  $5^n$  cannot end with the digit 0, where  $n$  is a natural number.  
**Reason (R)** : Prime factorisation of 5 has only two factors, 1 and 5.
- Q03. **Assertion (A)** :  $\sqrt{2}(5 - \sqrt{2})$  is an irrational number.  
**Reason (R)** : Product of two irrational numbers is always irrational.
- Q04. **Assertion (A)** : The HCF of two numbers is 5 and their product is 150. Then their LCM is 40.  
**Reason (R)** : For any two positive integers  $a$  and  $b$ ,  $\text{HCF}(a, b) \times \text{LCM}(a, b) = a \times b$ .

## ◆ Chapter-02 Polynomials

- Q01. **Assertion (A)** : The polynomial  $p(x) = x^2 + 3x + 3$  has two real zeroes.  
**Reason (R)** : A quadratic polynomial can have at most two real zeroes.
- Q02. **Assertion (A)** : Polynomial  $x^2 + 4x$  has two real zeroes.  
**Reason (R)** : Zeroes of the polynomial  $x^2 + ax$  ( $a \neq 0$ ) are 0 and  $a$ .
- Q03. **Assertion (A)** : If one zero of the quadratic polynomial  $4x^2 - 10x + (k - 4)$  is reciprocal of the other, then value of  $k$  is 8.  
**Reason (R)** : Zeroes of the quadratic polynomial  $x^2 - 2x + 1$  are real and equal.
- Q04. **Assertion (A)** : If  $5 + \sqrt{7}$  and  $5 - \sqrt{7}$  are zeroes of a quadratic polynomial, then the polynomial is given by  $x^2 - 10x + 18$ .  
**Reason (R)** : If  $\alpha$  and  $\beta$  are the zeroes of a quadratic polynomial, then the polynomial is given by  $x^2 - (\alpha + \beta)x + \alpha\beta$ .

## ◆ Chapter-03 Pair of Linear Equations in Two Variables

- Q01. **Assertion (A)** : The system of linear equations  $3x + 5y - 4 = 0$  and  $15x + 25y - 25 = 0$  is inconsistent.

**Reason (R) :** The pair of linear equations given by  $a_1x + b_1y + c_1 = 0$  and  $a_2x + b_2y + c_2 = 0$  is inconsistent if  $\frac{a_1}{a_2} = \frac{b_1}{b_2} \neq \frac{c_1}{c_2}$ .

Q02. **Assertion (A) :** Point P(0, 2) is the point of intersection of y-axis with the line  $3x + 2y = 4$ .

**Reason (R) :** The distance of point P(0, 2) from x-axis is 2 units.

Q03. **Assertion (A) :** The pair of linear equations  $5x + 2y + 6 = 0$  and  $7x + 6y + 18 = 0$  have infinitely many solutions.

**Reason (R) :** The pair of linear equations given by  $a_1x + b_1y + c_1 = 0$  and  $a_2x + b_2y + c_2 = 0$  have infinitely many solutions, if  $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$ .

Q04. **Assertion (A) :** The two lines given by  $2x + 3y = 7$  and  $4x + 6y = 14$  intersect at infinite points.

**Reason (R) :** When  $\frac{a_1}{a_2} = \frac{b_1}{b_2} = \frac{c_1}{c_2}$ , then the system of linear equations  $a_1x + b_1y + c_1 = 0$  and  $a_2x + b_2y + c_2 = 0$  has infinite no. of solutions.

### ◆ Chapter-04 Quadratic Equations

Q01. **Assertion (A) :** Equation  $2x^2 + 3x + 4 = 0$  has no real roots.

**Reason (R) :** When discriminant of a quadratic equation is zero, then the equation has real and distinct roots.

Q02. **Assertion (A) :** If one root of the quadratic equation  $4x^2 - 10x + (k - 4) = 0$  is reciprocal of the other, then value of k is 8.

**Reason (R) :** Roots of the quadratic equation  $x^2 - x + 1 = 0$  are real.

Q03. **Assertion (A) :** If  $5 + \sqrt{7}$  is a root of a quadratic equation with rational coefficients, then its other root is  $5 - \sqrt{7}$ .

**Reason (R) :** Surd roots of a quadratic equation with rational coefficients occur in conjugate pairs.

Q04. **Assertion (A) :** The equation  $x^2 + 6x + 9 = 0$  has real and equal roots.

**Reason (R) :** When discriminant  $b^2 - 4ac$  of a quadratic equation  $ax^2 + bx + c = 0$ ;  $a \neq 0$  is zero, then the equation has real and equal roots.

### ◆ Chapter-05 Arithmetic Progression

Q01. **Assertion (A) :** a, b, c are in A.P. if and only if  $2b = a + c$ .

**Reason (R) :** The sum of first n odd natural numbers is  $n^2$ .

Q02. **Assertion (A) :** Common difference of the A.P. 5, 1, -3, -7, ... is 4.

**Reason (R) :** Common difference of the A.P.  $a_1, a_2, a_3, \dots, a_n$  is obtained by  $d = a_n - a_{n-1}$ .

Q03. **Assertion (A) :**  $-5, -\frac{5}{2}, 0, \frac{5}{2}, \dots$  is in arithmetic progression.

**Reason (R) :** The terms of an Arithmetic Progression cannot have both positive and negative rational numbers.

Q04. **Assertion (A) :** Sum of n terms of an AP is always a quadratic polynomial.

**Reason (R) :** General term of an AP is always a quadratic polynomial.

### ◆ Chapter-06 Triangles

Q01. **Assertion (A) :** If two triangles are similar, their corresponding angles are equal.

**Reason (R) :** Any two equilateral triangles are always similar.

Q02. **Assertion (A) :** If  $\Delta_1 \sim \Delta_2$  and  $\Delta_2 \sim \Delta_3$ , then  $\Delta_1 \sim \Delta_3$ .

**Reason (R) :** If one polygon is similar to another polygon and this second polygon is similar to a third polygon, then the first polygon is similar to the third polygon.

Q03. **Assertion (A) :** If two triangles are similar, their corresponding medians are in the same ratio as their corresponding sides.

**Reason (R) :** Similar triangles have corresponding sides that are proportional.

Q04. **Assertion (A) :** All circles are similar.

**Reason (R) :** All squares are congruent.

### ◆ Chapter-07 Coordinate Geometry

Q01. **Assertion (A) :** The point (0, 4) lies on y-axis.

**Reason (R) :** The x-coordinate of a point, lying on y-axis, is zero.

Q02. **Assertion (A) :** If the points A(4, 3) and B(x, 5) lie on a circle with centre O(2, 3), then the value of x is 2.

**Reason (R) :** Centre of a circle is the mid-point of each chord of the circle.

Q03. **Assertion (A) :** Mid-point of a line segment divides the line segment in the ratio 1:1.

**Reason (R) :** The ratio in which the point (-3, k) divides the line segment joining the points (-5, 4) and (-2, 3) is 1:2.

Q04. **Assertion (A) :** The point which divides the line segment joining the points A(1, 2) and B(-1, 1) internally in the ratio 1:2 is  $\left(-\frac{1}{3}, \frac{5}{3}\right)$ .

**Reason (R) :** The coordinates of the point which divides the line segment joining the points A( $x_1, y_1$ ) and B( $x_2, y_2$ ) in the ratio  $m_1 : m_2$  are  $\left(\frac{m_1x_2 + m_2x_1}{m_1 + m_2}, \frac{m_1y_2 + m_2y_1}{m_1 + m_2}\right)$ .

### ◆ Chapter-08 Introduction to Trigonometry

Q01. **Assertion (A) :** For  $0^\circ < \theta \leq 90^\circ$ ,  $\operatorname{cosec} \theta - \cot \theta$  and  $\operatorname{cosec} \theta + \cot \theta$  are the reciprocal of each other.

**Reason (R) :**  $\cot^2 \theta - \operatorname{cosec}^2 \theta = 1$ .

Q02. **Assertion (A) :** If  $\sin A = \frac{1}{3}$ , ( $0^\circ < A < 90^\circ$ ), then the value of  $\cos A$  is  $\frac{2\sqrt{2}}{3}$ .

**Reason (R) :** For every angle  $\theta$ ,  $\sin^2 \theta + \cos^2 \theta = 1$ .

Q03. **Assertion (A) :** Maximum value of  $\frac{1}{\sec \theta} + \frac{1}{\operatorname{cosec} \theta}$  is 1.

**Reason (R) :** Maximum value of both  $\sin \theta$  and  $\cos \theta$  is 1.

Q04. **Assertion (A) :** Value of  $\sin \theta$  can never be  $\frac{21}{22}$ .

**Reason (R) :** Maximum value of  $\sin \theta$  is 1.

Q05. **Assertion (A) :** Value of  $\cos \theta$  can never be  $\frac{22}{21}$ .

**Reason (R) :** Maximum value of  $\cos \theta$  is 1.

Q06. **Assertion (A) :** Value of  $\tan 60^\circ$  is less than the value of  $\tan 45^\circ$ .

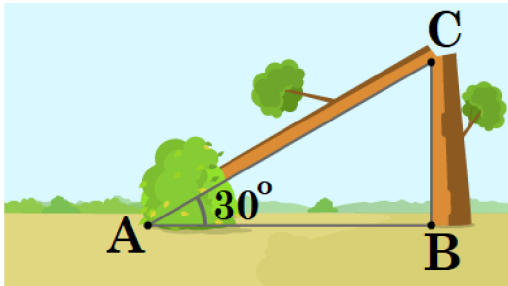
**Reason (R) :** When  $0^\circ < \theta < 90^\circ$ , the value of  $\tan \theta$  increases as  $\theta$  increases.

Q07. **Assertion (A) :** If  $\sin x = \frac{1}{2}$ , then the value of  $\cos 2x$  is also  $\frac{1}{2}$ .

**Reason (R) :** If  $\tan y = 1$ , then  $y = 45^\circ$ .

◆ Chapter-09 Applications of Trigonometry

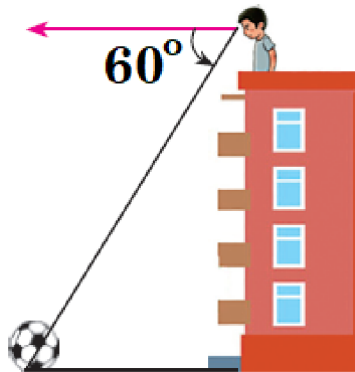
Q01. Refer the diagram shown below.



**Assertion (A) :** Angle of elevation is  $30^\circ$ .

**Reason (R) :** An angle of elevation is the angle formed between the line of sight and the horizontal line when looking upward from a point.

Q02. Refer the diagram shown below.



**Assertion (A) :** Angle of depression is  $60^\circ$ .

**Reason (R) :** The angle of depression is the angle formed between the line of sight and the horizontal line when looking downward from a point.

◆ Chapter-10 Circles

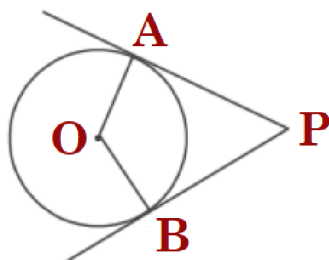
Q01. **Assertion (A) :** A tangent to a circle is perpendicular to the radius through the point of contact.

**Reason (R) :** The lengths of tangents drawn from the external point to a circle are equal.

Q02. **Assertion (A) :** The tangents drawn at the end points of a diameter of a circle, are parallel.

**Reason (R) :** Diameter of a circle is the longest chord.

Q03.



**Assertion (A) :** If the PA and PB are tangents drawn to a circle with centre O from an external point P, then the quadrilateral OAPB is a cyclic quadrilateral.

**Reason (R) :** In a cyclic quadrilateral, opposite angles are equal.

◆ Chapter-11 Areas Related to Circles

Q01. **Assertion (A) :** The area of the sector of a circle of radius 14 cm and central angle  $90^\circ$  is  $154 \text{ cm}^2$ .

**Reason (R) :** The area of the sector of a circle of radius r and central angle  $\theta$  is  $\pi r^2 \times \frac{\theta}{360}$ .

Q02. **Assertion (A) :** If the circumference of a circle is 176 cm, then its radius is 28 cm.

**Reason (R) :** Circumference =  $2\pi \times$  radius of a circle.

Q03. **Assertion (A)** : The length of the minute hand of a clock is 7 cm. Then the area swept by minute hand in 5 minute is  $\frac{53}{6}$  cm<sup>2</sup>.

**Reason (R)** : The length of an arc of a sector of angle  $\theta$  and radius  $r$  is given by  $l = \frac{\theta}{360^\circ} \times 2\pi r$ .

Q04. **Assertion (A)** : In a circle of radius 6 cm, the angle of a sector  $60^\circ$ . Then the area of the sector is  $18\frac{6}{7}$  cm<sup>2</sup>.

**Reason (R)** : Area of the circle with radius  $r$  is  $\pi r^2$ .

### ◆ Chapter-12 Surface Areas and Volumes

Q01. **Assertion (A)** : The surface area of largest sphere that can be inscribed in a hollow cube of side 'a' cm is  $\pi a^2$  cm<sup>2</sup>.

**Reason (R)** : The surface area of a sphere of radius 'r' is  $\frac{4}{3}\pi r^3$ .

Q02. **Assertion (A)** : The diameter of a sphere, whose surface area is 616 cm<sup>2</sup>, is 7 cm.

**Reason (R)** : The surface area of a sphere of radius  $r$  is  $4\pi r^2$ .

Q03. **Assertion (A)** : Two cubes each of edge length 10 cm are joined together. The total surface area of newly formed cuboid is 1200 cm<sup>2</sup>.

**Reason (R)** : Area of each surface of a cube of side 10 cm is 100 cm<sup>2</sup>.

Q04. **Assertion (A)** : Total surface area of the top is the sum of curved surface area of the hemisphere and the curved surface area of the cone.



**Reason (R)** : Top is obtained by fixing the plane surface of the hemisphere and cone together.

### ◆ Chapter-13 Statistics

Q01. **Assertion (A)** : If the Mean and the Median of a distribution are 169 and 170 respectively, then its Mode is 172.

**Reason (R)** : The relation between Mean, Median and Mode is  $\text{Mode} = 3\text{Median} - 2\text{Mean}$ .

Q02. **Assertion (A)** : Mean is the average of all the observations.

**Reason (R)** : If each observation is increased by 10, mean will also be increased by 10.

### ◆ Chapter-14 Probability

Q01. **Assertion (A)** : Two players, Sania and Ashnam play a tennis match. The probability of Sania winning the match is 0.79 and that of Ashnam winning the match is 0.21.

**Reason (R)** : The sum of probabilities of two complementary events is 1.

Q02. **Assertion (A)** : A fair die is thrown once. The probability of getting a prime number is  $\frac{1}{2}$ .

**Reason (R)** : A natural number is a prime number if it has only two factors.

Q03. **Assertion (A)** : The probability of getting a prime number, when a die is thrown once, is  $\frac{2}{3}$ .

**Reason (R)** : On the faces of a die, prime numbers are 2, 3, and 5.

Q04. **Assertion (A)** : When two coins are tossed together, the probability of getting no tail is  $\frac{1}{4}$ .

**Reason (R) :** The probability  $P(E)$  of an event  $E$  satisfies  $0 \leq P(E) \leq 1$ .

Q05. **Assertion (A) :** The probability that a leap year has 53 Sundays is  $\frac{2}{7}$ .

**Reason (R) :** The probability that a non-leap year has 53 Sundays is  $\frac{1}{7}$ .

Q06. **Assertion (A) :** The probability of randomly drawing a card with an even number from a box containing cards numbered 1 to 100 is  $\frac{1}{2}$ .

**Reason (R) :**  $P(\text{event}) = \frac{\text{Number of favourable outcomes}}{\text{Total number of possible outcomes}}$ .



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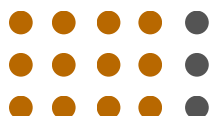
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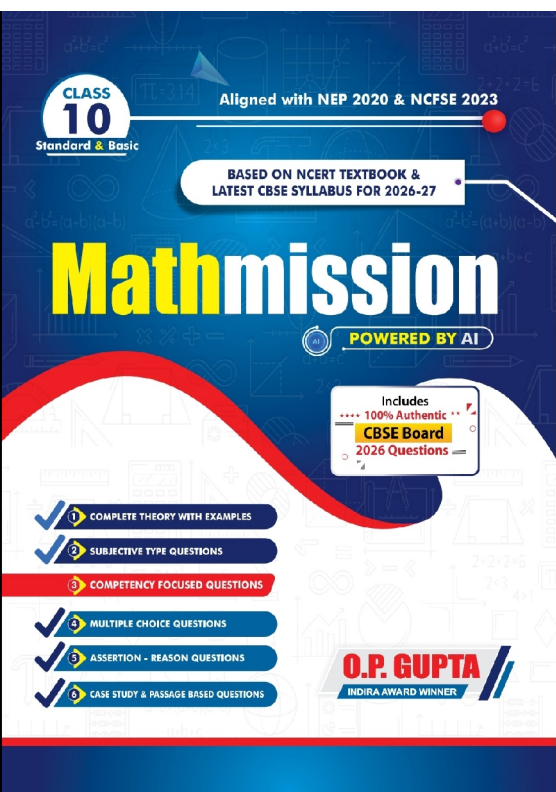
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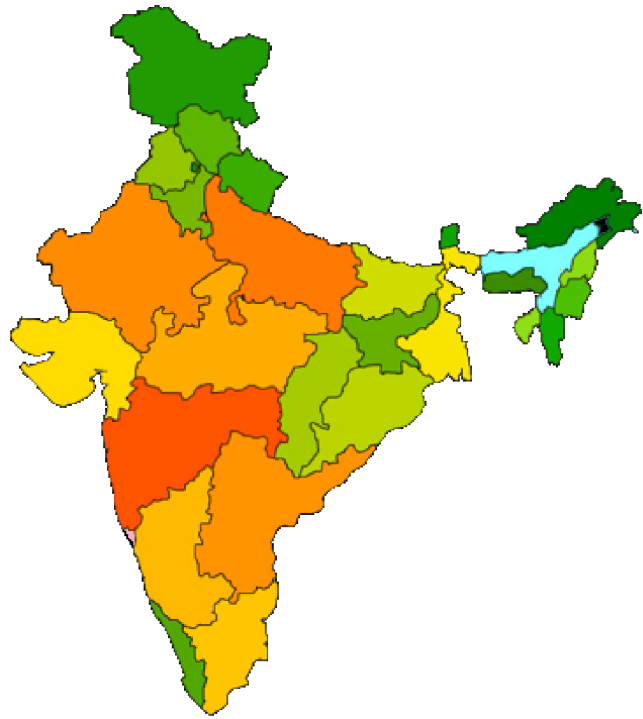
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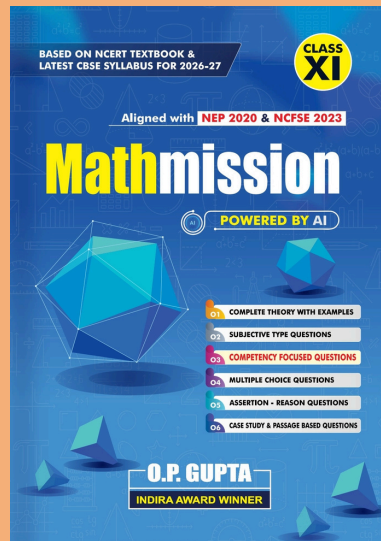
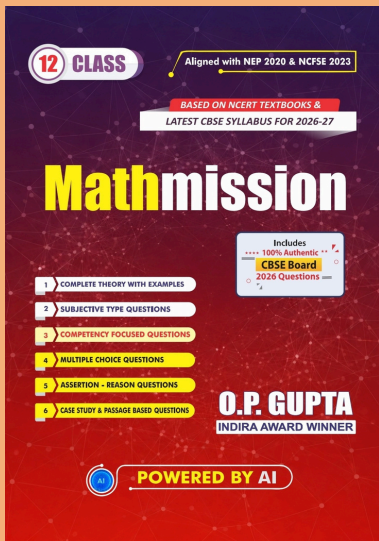
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To support **collaborative learning and resource sharing** in Mathematics, dedicated WhatsApp groups have been created for:

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**These groups aim to share:**

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## 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.

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## ✪ Important Guidelines

- Teachers are requested NOT to join student groups.
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- ☑ 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

Author - Mathmission Series of Books

Founder & Mentor

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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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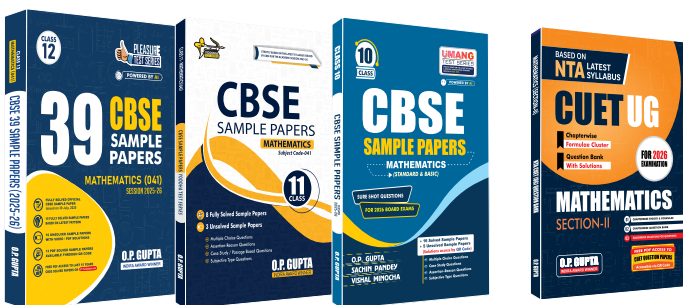


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