

Practice Paper (2023-24)
Class – IX
Mathematics

Time Allowed: 3 Hrs.

Maximum Marks: 80

General Instructions:

1. This Question Paper has 5 Sections A, B, C, D, and E.
2. Section A has 20 Multiple Choice Questions (MCQs) carrying 1 mark each.
3. Section B has 5 Short Answer-I (SA-I) type questions carrying 2 marks each.
4. Section C has 6 Short Answer-II (SA-II) type questions carrying 3 marks each.
5. Section D has 4 Long Answer (LA) type questions carrying 5 marks each.
6. Section E has 3 sourced based/Case Based/passages based/integrated units of assessment (4 marks each) with sub-parts of the values of 1, 1 and 2 marks each respectively.
7. All Questions are compulsory. However, an internal choice in 2 Questions of 2 marks, 2 Questions of 3 marks and 2 Questions of 5 marks has been provided. An internal choice has been provided in the 2 marks questions of Section E.
8. Draw neat figures wherever required. Take $\pi = 22/7$ wherever required if not Stated.

SECTION A

Q 1-20 are multiple choice questions. Each question is of 1 mark.

1. The product of any two irrational numbers is:
 - a. always an irrational number
 - b. always a rational number
 - c. always an integer
 - d. sometimes rational, sometimes irrational
2. The perimeter of a triangle is 60 cm. If its sides are in the ratio 1:3:2, then its smallest side is
 - a. 15cm
 - b. 5 cm
 - c. 10 cm
 - d. none of these
3. If (2, 0) is a solution of the linear equation $2x + 3y = k$, then the value of k is:
 - a. -4
 - b. 6
 - c. 5
 - d. 4

4. In figure, BC is a diameter of the circle and $\angle BAO = 60^\circ$. Then $\angle ADC$ is equal to:



- a. 30°
- b. 45°
- c. 60°
- d. 120°

5. The base diameter of a cone is 10.5 cm, and its slant height is 10 cm. The area of a curved Surface is :
 - a. 150 sq.cm
 - b. 165 sq.cm
 - c. 177 sq.cm
 - d. 180 sq.cm

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web det ab det a det b if a is invertible then $\det a^{-1} = \frac{1}{\det a}$ solution problems let a $\begin{pmatrix} 8 & 1 & 6 & 3 & 5 & 7 & 4 & 9 & 2 \end{pmatrix}$ notice that a contains every integer from 1 to 9 and that the sums of each row column and diagonal of a are equal such a grid is sometimes called a magic square compute the determinant of a

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web so there are two quantities which can be found in a matrix minors and cofactors minors exist for each element of the matrix and are defined as the determinant of the matrix you get when you ignore the row and column of the element in question for example if my matrix is as follows $\begin{vmatrix} 1 & 2 & 3 & 4 \\ 5 & 6 & 7 & 8 \\ 9 & 10 & 11 & 12 \end{vmatrix}$

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