Practice Paper (2023-24)
Class – IX
Mathematics

Time Allowed: 3 Hrs.   **Maximum Marks: 80**
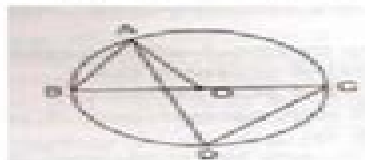
General Instructions:

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/passage 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 ∠BAO = 60. Then ∠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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