SUBJECT: MATHEMATICS
CLASS : IX

MAX. MARKS : 80
DURATION : 3 HRS

General Instruction:
(i) **All** questions are compulsory.
(ii) This question paper contains **30** questions divided into four Sections A, B, C and D.
(iii) **Section A** comprises of 6 questions of **1 mark** each. **Section B** comprises of 6 questions of **2 marks** each. **Section C** comprises of 10 questions of **3 marks** each and **Section D** comprises of 8 questions of **4 marks** each.
(iv) There is no overall choice. However, an internal choice has been provided in two questions in 1 mark each, two questions in 2 marks each, four questions of 3 marks each and three questions of 4 marks each. You have to attempt only one of the alternatives in all such questions.
(v) Use of Calculators is not permitted

SECTION – A
Questions 1 to 6 carry 1 mark each.

1. Find the total surface area of a hemisphere of radius 10 cm. (Use $\pi = 3.14$)
   OR
   Find the height of cone, if its slant height is 34 cm and base diameter is 32 cm.

2. If the point (3, 4) lies on the graph of the equation $3y = ax + 7$, find the value of a.

3. Simplify: $\dfrac{\sqrt{32} + \sqrt{48}}{\sqrt{8} + \sqrt{12}}$

   OR

   Find the value of $\sqrt{3^{-2}}$.

4. In a bag, there are 100 bulbs out of which 30 are defective ones. A bulb is taken out of the bag at random. Find the probability of the selected bulb to be a good one.

5. If its perimeter of an equilateral triangle is 180 cm, what will be its area?

6. In the below figure, $\angle ABC = 69°$, $\angle ACB = 31°$, find $\angle BDC$.

SECTION – B
Questions 6 to 12 carry 2 marks each.

7. A river 3 m deep and 40 m wide is flowing at the rate of 2 km per hour. How much water will fall into the sea in a minute?

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Table of Contents Maths Cbse 9 Fa2 Sample Papers

1. Understanding the eBook Maths Cbse 9 Fa2 Sample Papers
    - The Rise of Digital Reading Maths Cbse 9 Fa2 Sample Papers
    - Advantages of eBooks Over Traditional Books
2. Identifying Maths Cbse 9 Fa2 Sample Papers
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Maths Cbse 9 Fa2 Sample Papers
    - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Cbse 9 Fa2 Sample Papers
    - Personalized Recommendations
    - Maths Cbse 9 Fa2 Sample Papers User Reviews and Ratings
    - Maths Cbse 9 Fa2 Sample Papers and Bestseller Lists
5. Accessing Maths Cbse 9 Fa2 Sample Papers Free and Paid eBooks

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