

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:  $\frac{\sqrt{32} + \sqrt{48}}{\sqrt{8} + \sqrt{12}}$

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,  $\angle ABC = 69^\circ$ ,  $\angle ACB = 31^\circ$ , 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?

# Samaths Question Paper Class 9

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## **Table of Contents Samaths Question Paper Class 9**

1. Understanding the eBook Samaths Question Paper Class 9
  - The Rise of Digital Reading Samaths Question Paper Class 9
  - Advantages of eBooks Over Traditional Books
2. Identifying Samaths Question Paper Class 9
  - 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 Samaths Question Paper Class 9
  - User-Friendly Interface
4. Exploring eBook Recommendations from Samaths Question Paper Class 9
  - Personalized Recommendations
  - Samaths Question Paper Class 9 User Reviews and Ratings
  - Samaths Question Paper Class 9 and Bestseller Lists
5. Accessing Samaths Question Paper Class 9 Free and Paid eBooks

- Samaths Question Paper Class 9 Public Domain eBooks
  - Samaths Question Paper Class 9 eBook Subscription Services
  - Samaths Question Paper Class 9 Budget-Friendly Options
6. Navigating Samaths Question Paper Class 9 eBook Formats
    - ePub, PDF, MOBI, and More
    - Samaths Question Paper Class 9 Compatibility with Devices
    - Samaths Question Paper Class 9 Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Samaths Question Paper Class 9
    - Highlighting and Note-Taking Samaths Question Paper Class 9
    - Interactive Elements Samaths Question Paper Class 9
  8. Staying Engaged with Samaths Question Paper Class 9
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Samaths Question Paper Class 9
  9. Balancing eBooks and Physical Books Samaths Question Paper Class 9
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Samaths Question Paper Class 9
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Samaths Question Paper Class 9
    - Setting Reading Goals Samaths Question Paper Class 9
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Samaths Question Paper Class 9
    - Fact-Checking eBook Content of Samaths Question Paper Class 9
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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