#### 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.

Find the total surface area of a hemisphere of radius 10 cm. (Use π = 3.14)

Find the height of cone, if its slant height is 34 cm and base diameter is 32 cm.

- If the point (3, 4) lies on the graph of the equation 3y = ax + 7, find the value of a.
- 3. Simplify:  $\frac{\sqrt{32} + \sqrt{48}}{\sqrt{8} + \sqrt{12}}$

OB

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.
- If its perimeter of an equilateral triangle is 180 cm, what will be its area?
- In the below figure. ∠ABC = 69°. ∠ACB = 31°. find ∠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 Sample Paper Of Maths**

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

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