

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?

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Table of Contents Nmathematics 22exam Paper

1. Understanding the eBook Nmathematics 22exam Paper
 - The Rise of Digital Reading Nmathematics 22exam Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Nmathematics 22exam Paper
 - 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 Nmathematics 22exam Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nmathematics 22exam Paper
 - Personalized Recommendations
 - Nmathematics 22exam Paper User Reviews and Ratings
 - Nmathematics 22exam Paper and Bestseller Lists

5. Accessing Nmathematics 22exam Paper Free and Paid eBooks
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 - Nmathematics 22exam Paper eBook Subscription Services
 - Nmathematics 22exam Paper Budget-Friendly Options
6. Navigating Nmathematics 22exam Paper eBook Formats
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 - Nmathematics 22exam Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nmathematics 22exam Paper
 - Highlighting and Note-Taking Nmathematics 22exam Paper
 - Interactive Elements Nmathematics 22exam Paper
8. Staying Engaged with Nmathematics 22exam Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nmathematics 22exam Paper
9. Balancing eBooks and Physical Books Nmathematics 22exam Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nmathematics 22exam Paper
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Nmathematics 22exam Paper
 - Setting Reading Goals Nmathematics 22exam Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nmathematics 22exam Paper
 - Fact-Checking eBook Content of Nmathematics 22exam Paper
 - 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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