

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.

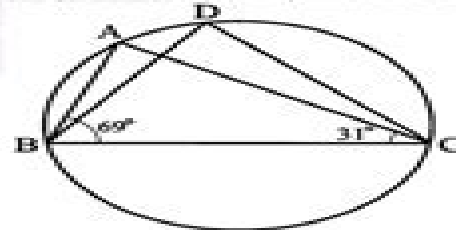
1. Find the total surface area of a hemisphere of radius 10 cm. (Use $\pi = 3.14$)
OR
Find the height of cone, if its slant height is 34 cm and base diameter is 32 cm.
2. If the point (3, 4) lies on the graph of the equation $3y = ax + 7$, find the value of a.

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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Yi-Tong Ma



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Table of Contents Maths Final Exam Paper 2014grade 9

1. Understanding the eBook Maths Final Exam Paper 2014grade 9
 - The Rise of Digital Reading Maths Final Exam Paper 2014grade 9
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Final Exam Paper 2014grade 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 Maths Final Exam Paper 2014grade 9
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Final Exam Paper 2014grade 9
 - Personalized Recommendations
 - Maths Final Exam Paper 2014grade 9 User Reviews and Ratings
 - Maths Final Exam Paper 2014grade 9 and Bestseller Lists
5. Accessing Maths Final Exam Paper 2014grade 9 Free and Paid eBooks
 - Maths Final Exam Paper 2014grade 9 Public Domain eBooks
 - Maths Final Exam Paper 2014grade 9 eBook Subscription Services
 - Maths Final Exam Paper 2014grade 9 Budget-Friendly Options

6. Navigating Maths Final Exam Paper 2014grade 9 eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Final Exam Paper 2014grade 9 Compatibility with Devices
 - Maths Final Exam Paper 2014grade 9 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Final Exam Paper 2014grade 9
 - Highlighting and Note-Taking Maths Final Exam Paper 2014grade 9
 - Interactive Elements Maths Final Exam Paper 2014grade 9
8. Staying Engaged with Maths Final Exam Paper 2014grade 9
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Final Exam Paper 2014grade 9
9. Balancing eBooks and Physical Books Maths Final Exam Paper 2014grade 9
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Final Exam Paper 2014grade 9
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Final Exam Paper 2014grade 9
 - Setting Reading Goals Maths Final Exam Paper 2014grade 9
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Final Exam Paper 2014grade 9
 - Fact-Checking eBook Content of Maths Final Exam Paper 2014grade 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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