

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?

Question Paper For Grade 9 Mathematics Final Exam November 2014

Joseph A. Balogun



Question Paper For Grade 9 Mathematics Final Exam November 2014:

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Reimagining Nigeria's Educational System Joseph A. Balogun, 2023-09-20 This book assesses the challenges within the Nigerian educational system and provides a concrete plan to revitalize the low-performing system by strengthening high-stakes testing at all levels. In Nigeria, many citizens believe that the solution to the country's low performance in education is to eliminate high-stakes standardized testing. High-stakes testing refers to applying standardized student achievement tests as a primary mechanism to evaluate students, teachers, and their schools' performance. This book argues that the poor quality of education and low ranking of Nigeria's educational system is not related to the negative consequences of high-stakes testing but rather is due to many intrinsic factors. By conducting a comparative analysis of six high-performing education systems worldwide, the book offers a comparative summative evaluation of the educational system and offers recommendations. This book will be of interest to policymakers and scholars in the fields of African education, higher education quality, and global studies. African studies, management, and administration, leadership, and professional development studies. Joseph Abiodun Balogun is former Dean and retired Distinguished University Professor at the College of Health Sciences, Chicago State University, USA; Visiting Professor, Program Consultant at the Centre of Excellence in Reproductive Health Innovation, University of Benin, Nigeria; and President, CEO, Joseph Rehabilitation Center, Tinley Park, Illinois, USA.

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Table of Contents Question Paper For Grade 9 Mathematics Final Exam November2014

1. Understanding the eBook Question Paper For Grade 9 Mathematics Final Exam November2014
 - The Rise of Digital Reading Question Paper For Grade 9 Mathematics Final Exam November2014
 - Advantages of eBooks Over Traditional Books
2. Identifying Question Paper For Grade 9 Mathematics Final Exam November2014
 - 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 Question Paper For Grade 9 Mathematics Final Exam November2014
 - User-Friendly Interface
4. Exploring eBook Recommendations from Question Paper For Grade 9 Mathematics Final Exam November2014
 - Personalized Recommendations
 - Question Paper For Grade 9 Mathematics Final Exam November2014 User Reviews and Ratings
 - Question Paper For Grade 9 Mathematics Final Exam November2014 and Bestseller Lists
5. Accessing Question Paper For Grade 9 Mathematics Final Exam November2014 Free and Paid eBooks
 - Question Paper For Grade 9 Mathematics Final Exam November2014 Public Domain eBooks
 - Question Paper For Grade 9 Mathematics Final Exam November2014 eBook Subscription Services
 - Question Paper For Grade 9 Mathematics Final Exam November2014 Budget-Friendly Options

6. Navigating Question Paper For Grade 9 Mathematics Final Exam November2014 eBook Formats
 - ePub, PDF, MOBI, and More
 - Question Paper For Grade 9 Mathematics Final Exam November2014 Compatibility with Devices
 - Question Paper For Grade 9 Mathematics Final Exam November2014 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Question Paper For Grade 9 Mathematics Final Exam November2014
 - Highlighting and Note-Taking Question Paper For Grade 9 Mathematics Final Exam November2014
 - Interactive Elements Question Paper For Grade 9 Mathematics Final Exam November2014
8. Staying Engaged with Question Paper For Grade 9 Mathematics Final Exam November2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Question Paper For Grade 9 Mathematics Final Exam November2014
9. Balancing eBooks and Physical Books Question Paper For Grade 9 Mathematics Final Exam November2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Question Paper For Grade 9 Mathematics Final Exam November2014
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Question Paper For Grade 9 Mathematics Final Exam November2014
 - Setting Reading Goals Question Paper For Grade 9 Mathematics Final Exam November2014
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Question Paper For Grade 9 Mathematics Final Exam November2014
 - Fact-Checking eBook Content of Question Paper For Grade 9 Mathematics Final Exam November2014
 - 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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