

SUMMATIVE ASSESSMENT - I (2014-15)

MATHEMATICS

Class - X (Set 'A')

Maximum Marks: 90

No. of Printed Sides: 03

Roll No.:

Time : 3hrs.
No. of Questions: 31
Name:

General Instructions:

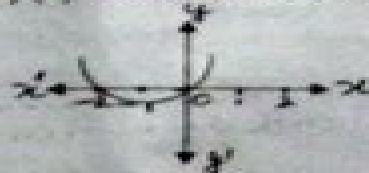
- All questions are compulsory.
- The question paper consists of 31 questions divided into four sections A, B, C and D. Section-A comprises of 4 questions of 1 mark each; Section-B comprises of 5 questions of 2 marks each; Section-C comprises of 10 questions of 3 marks each and Section-D comprises of 11 questions of 4 marks each.
- Use of calculator is not permitted.

SECTION: 'A'

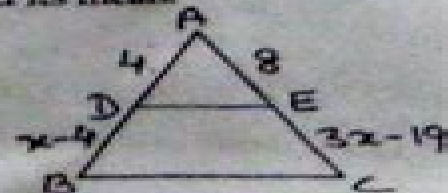
- Q1 If $x = 3\sec^2 \theta - 1$ and $y = 3\tan^2 \theta - 2$ then find $x - y$.
- Q2 If $\triangle ABC \sim \triangle DEF$, and $BC = 3\text{cm}$, $EF = 4\text{cm}$, $\text{ar}(\triangle ABC) = 54\text{cm}^2$, then find $\text{ar}(\triangle DEF)$.
- Q3 The mean monthly salary of 10 members of a group is ₹ 1445. If one more member whose monthly salary is ₹ 1500 joins the group, then find the mean monthly salary (in ₹) of 11 members of the group.
- Q4 If $\text{LCM}(26, 169) = 338$, then find the HCF (26, 169).

SECTION - B

- Q5 If one zero of the quadratic polynomial $f(x) = 4x^2 - 8kx - 9$ is negative of the other, then find the value of k .
- Q6 Find the zeros of the polynomial $p(x)$, as shown in the graph and hence find the polynomial.



- Q7 Without actually performing the long division, state whether the following rational numbers will have a terminating decimal expansion or a non-terminating repeating decimal expansion.
- (A) $\frac{169}{2^3 \times 5^3 \times 13^2}$ (B) $\frac{66}{180}$
- Q8 Find the x -coordinate of the point which lies on the line represented by $5x - y - 7 = 0$ and whose y -coordinate is 13.
- Q9 If the median and mode of a data are 52 and 52.4 respectively, then find its mean.
- Q10 In the given figure, if $DE \parallel BC$ then find the value of x .



Maths Question Paper For Class 10 Sa1

A Gutmann



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Table of Contents Maths Question Paper For Class 10 Sa1

1. Understanding the eBook Maths Question Paper For Class 10 Sa1
 - The Rise of Digital Reading Maths Question Paper For Class 10 Sa1
 - Advantages of eBooks Over Traditional Books
2. Identifying Maths Question Paper For Class 10 Sa1
 - 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 Question Paper For Class 10 Sa1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Maths Question Paper For Class 10 Sa1
 - Personalized Recommendations
 - Maths Question Paper For Class 10 Sa1 User Reviews and Ratings
 - Maths Question Paper For Class 10 Sa1 and Bestseller Lists
5. Accessing Maths Question Paper For Class 10 Sa1 Free and Paid eBooks
 - Maths Question Paper For Class 10 Sa1 Public Domain eBooks
 - Maths Question Paper For Class 10 Sa1 eBook Subscription Services
 - Maths Question Paper For Class 10 Sa1 Budget-Friendly Options

6. Navigating Maths Question Paper For Class 10 Sa1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Maths Question Paper For Class 10 Sa1 Compatibility with Devices
 - Maths Question Paper For Class 10 Sa1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Maths Question Paper For Class 10 Sa1
 - Highlighting and Note-Taking Maths Question Paper For Class 10 Sa1
 - Interactive Elements Maths Question Paper For Class 10 Sa1
8. Staying Engaged with Maths Question Paper For Class 10 Sa1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Maths Question Paper For Class 10 Sa1
9. Balancing eBooks and Physical Books Maths Question Paper For Class 10 Sa1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Maths Question Paper For Class 10 Sa1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Maths Question Paper For Class 10 Sa1
 - Setting Reading Goals Maths Question Paper For Class 10 Sa1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Maths Question Paper For Class 10 Sa1
 - Fact-Checking eBook Content of Maths Question Paper For Class 10 Sa1
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
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