#### MATHEMATICS

Series: HRL

Time: 3 Hrs.

Paper & Solution

Code: 30/1 Max. Marks: 80

#### General Instuctions:

(i) All questions are compulsory.

(ii) The question paper consists of 30 questions divided into four sections — A, B, C and D. Section A comprises of ten questions of 1 mark each, Section B comprises of five questions of 2 marks each, Section C comprises of ten questions of 3 marks each and Section D comprises of five questions of 6 marks each (iii) All questions in Section A are to be answered in one word, one sentence or as per the exact requirement of the question.

(iv) There is no overall choke. However, an internal choice has been provided in one question of 2 marks each, three questions of 3 marks each and two questions of 6 marks each. You have to attempt only one of the alternatives in all such questions.

(v) In question on construction, the drawings should be neat and exactly as per the given measurement.

(vi) Use of calculators is not permitted.

#### SECTION - A

Questions number 1 to 10 carry I mark each.

Find the [ HCF × LCM ] for the numbers 100 and 190.

#### Solution:

Given two numbers 100 and 190 Product of 100 and 190 ∴ HCF × LCM = 100 × 190 = 19000

2. If 1 is a zero of the polynomial  $p(x) = ax^2 - 3 (a - 1)x - 1$ , then find the value of a.

#### Solution:

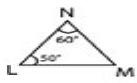
If x=1 is the zero of the polynomial  $\rho(x)=\alpha x^2-3(\alpha-1)x-1$ Then  $\rho(1)=0$  $\therefore a(1)^2-3(\alpha-1)-1=0$ 

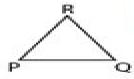
 $-2\alpha+2=0$ 

o - 1

In ∆LMN, ∠L = 50° and ∠N = 60°. If ∆LMN ~ ∆PQR, then find ∠Q.

#### Solution:





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**Chao Zhang** 

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## **Table of Contents Maths Paper 2009**

- 1. Understanding the eBook Maths Paper 2009
  - o The Rise of Digital Reading Maths Paper 2009
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Maths Paper 2009
  - 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 Maths Paper 2009
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Maths Paper 2009
  - Personalized Recommendations

- Maths Paper 2009 User Reviews and Ratings
- Maths Paper 2009 and Bestseller Lists
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  - Maths Paper 2009 Public Domain eBooks
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  - Maths Paper 2009 Budget-Friendly Options
- 6. Navigating Maths Paper 2009 eBook Formats
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  - Maths Paper 2009 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Maths Paper 2009
  - Highlighting and Note-Taking Maths Paper 2009
  - Interactive Elements Maths Paper 2009
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  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Maths Paper 2009
- 9. Balancing eBooks and Physical Books Maths Paper 2009
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Maths Paper 2009
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Maths Paper 2009
  - Setting Reading Goals Maths Paper 2009
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maths Paper 2009
  - Fact-Checking eBook Content of Maths Paper 2009

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
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