

Namma Kalvi
www.nammakalvi.org
HIGHER SECONDARY FIRST YEAR
MATHEMATICS
MODEL QUESTION PAPER

Time Allowed: 2.30 Hours]

[Maximum Marks:90

- Instructions:**
- (a) Check the question paper for fairness of printing. If there is any lack of fairness, inform the Hall Supervisor immediately.
 - (b) Use **Blue** or **Black** ink to write and underline and pencil to draw diagrams.

SECTION – I

- Note:**
- (i) All questions are compulsory. 20×1 = 20
 - (ii) Choose the correct or most suitable answer from the given **four** alternatives. Write the option code and the corresponding answer.

- If two sets A and B have 17 elements in common, then the number of elements common to the set $A \times B$ and $B \times A$ is
 (1) 2^{17} (2) 17^2 (3) 34 (4) insufficient data
- If $\mathbb{R}$ is the set of all real numbers and if $f: \mathbb{R} - \{3\} \rightarrow \mathbb{R}$ is defined by $f(x) = \frac{3+x}{3-x}$ for $x \in \mathbb{R} - \{3\}$, then the range of f is
 (1) $\mathbb{R}$ (2) $\mathbb{R} - \{1\}$ (3) $\mathbb{R} - \{-1\}$ (4) $\mathbb{R} - \{-3\}$
- If the sum and product of the roots of the equation $2x^2 + (a-3)x + 3a-5 = 0$ are equal, then the value of a is
 (1) 1 (2) 2 (3) 0 (4) 4
- Which one of the following is not true?
 (1) $|\sin x| \leq 1$ (2) $|\sec x| < 1$
 (3) $|\cos x| \leq 1$ (4) $\operatorname{cosec} x \geq 1$ or $\operatorname{cosec} x \leq -1$
- $\cos 1^\circ + \cos 2^\circ + \cos 3^\circ + \dots + \cos 179^\circ$ is
 (1) 0 (2) 1 (3) -1 (4) 89
- If 10 lines are drawn in a plane such that no two of them are parallel and no three are concurrent, then the total number of points of intersection are
 (1) 45 (2) 40 (3) 101 (4) 2^{10}
- The remainder when 2^{204} is divided by 15 is
 (1) 4 (2) 8 (3) 1 (4) 2
- The harmonic mean of two positive numbers whose arithmetic mean and geometric mean are 16, 8 respectively is
 (1) 10 (2) 6 (3) 5 (4) 4
- In the equation of a straight line $ax + by + c = 0$, if a, b, c are in arithmetic progression then the point on the straight line is
 (1) (1, 2) (2) (1, -2) (3) (2, -1) (4) (2, 1)
- If two straight lines $x + (2k-7)y + 3 = 0$ and $3kx + 9y - 5 = 0$ are perpendicular to each other then the value of k is
 (1) 3 (2) $\frac{1}{3}$ (3) $\frac{2}{3}$ (4) $\frac{3}{2}$

Higher Secondary First Year Volume Maths Guide

G Orfield



Higher Secondary First Year Volume Maths Guide:

The book delves into Higher Secondary First Year Volume Maths Guide. Higher Secondary First Year Volume Maths Guide is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Higher Secondary First Year Volume Maths Guide, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Higher Secondary First Year Volume Maths Guide
 - Chapter 2: Essential Elements of Higher Secondary First Year Volume Maths Guide
 - Chapter 3: Higher Secondary First Year Volume Maths Guide in Everyday Life
 - Chapter 4: Higher Secondary First Year Volume Maths Guide in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Higher Secondary First Year Volume Maths Guide. The first chapter will explore what Higher Secondary First Year Volume Maths Guide is, why Higher Secondary First Year Volume Maths Guide is vital, and how to effectively learn about Higher Secondary First Year Volume Maths Guide.
 3. In chapter 2, this book will delve into the foundational concepts of Higher Secondary First Year Volume Maths Guide. This chapter will elucidate the essential principles that need to be understood to grasp Higher Secondary First Year Volume Maths Guide in its entirety.
 4. In chapter 3, the author will examine the practical applications of Higher Secondary First Year Volume Maths Guide in daily life. This chapter will showcase real-world examples of how Higher Secondary First Year Volume Maths Guide can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Higher Secondary First Year Volume Maths Guide in specific contexts. The fourth chapter will explore how Higher Secondary First Year Volume Maths Guide is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Higher Secondary First Year Volume Maths Guide. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Higher Secondary First Year Volume Maths Guide.

Table of Contents Higher Secondary First Year Volume Maths Guide

1. Understanding the eBook Higher Secondary First Year Volume Maths Guide
 - The Rise of Digital Reading Higher Secondary First Year Volume Maths Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Higher Secondary First Year Volume Maths Guide
 - 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 Higher Secondary First Year Volume Maths Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Higher Secondary First Year Volume Maths Guide
 - Personalized Recommendations
 - Higher Secondary First Year Volume Maths Guide User Reviews and Ratings
 - Higher Secondary First Year Volume Maths Guide and Bestseller Lists
5. Accessing Higher Secondary First Year Volume Maths Guide Free and Paid eBooks
 - Higher Secondary First Year Volume Maths Guide Public Domain eBooks
 - Higher Secondary First Year Volume Maths Guide eBook Subscription Services
 - Higher Secondary First Year Volume Maths Guide Budget-Friendly Options
6. Navigating Higher Secondary First Year Volume Maths Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Higher Secondary First Year Volume Maths Guide Compatibility with Devices
 - Higher Secondary First Year Volume Maths Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Higher Secondary First Year Volume Maths Guide
 - Highlighting and Note-Taking Higher Secondary First Year Volume Maths Guide
 - Interactive Elements Higher Secondary First Year Volume Maths Guide

8. Staying Engaged with Higher Secondary First Year Volume Maths Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Higher Secondary First Year Volume Maths Guide
9. Balancing eBooks and Physical Books Higher Secondary First Year Volume Maths Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Higher Secondary First Year Volume Maths Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Higher Secondary First Year Volume Maths Guide
 - Setting Reading Goals Higher Secondary First Year Volume Maths Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Higher Secondary First Year Volume Maths Guide
 - Fact-Checking eBook Content of Higher Secondary First Year Volume Maths Guide
 - 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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