

**Namma Kalvi**  
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**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  $2^{2004}$  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 1 Maths Guide

**Ian Pickup**



## Higher Secondary First Year Volume 1 Maths Guide:

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## **Table of Contents Higher Secondary First Year Volume 1 Maths Guide**

1. Understanding the eBook Higher Secondary First Year Volume 1 Maths Guide
  - The Rise of Digital Reading Higher Secondary First Year Volume 1 Maths Guide
  - Advantages of eBooks Over Traditional Books
2. Identifying Higher Secondary First Year Volume 1 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 1 Maths Guide
  - User-Friendly Interface
4. Exploring eBook Recommendations from Higher Secondary First Year Volume 1 Maths Guide
  - Personalized Recommendations
  - Higher Secondary First Year Volume 1 Maths Guide User Reviews and Ratings
  - Higher Secondary First Year Volume 1 Maths Guide and Bestseller Lists
5. Accessing Higher Secondary First Year Volume 1 Maths Guide Free and Paid eBooks
  - Higher Secondary First Year Volume 1 Maths Guide Public Domain eBooks
  - Higher Secondary First Year Volume 1 Maths Guide eBook Subscription Services
  - Higher Secondary First Year Volume 1 Maths Guide Budget-Friendly Options

6. Navigating Higher Secondary First Year Volume 1 Maths Guide eBook Formats
  - ePub, PDF, MOBI, and More
  - Higher Secondary First Year Volume 1 Maths Guide Compatibility with Devices
  - Higher Secondary First Year Volume 1 Maths Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Higher Secondary First Year Volume 1 Maths Guide
  - Highlighting and Note-Taking Higher Secondary First Year Volume 1 Maths Guide
  - Interactive Elements Higher Secondary First Year Volume 1 Maths Guide
8. Staying Engaged with Higher Secondary First Year Volume 1 Maths Guide
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Higher Secondary First Year Volume 1 Maths Guide
9. Balancing eBooks and Physical Books Higher Secondary First Year Volume 1 Maths Guide
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Higher Secondary First Year Volume 1 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 1 Maths Guide
  - Setting Reading Goals Higher Secondary First Year Volume 1 Maths Guide
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Higher Secondary First Year Volume 1 Maths Guide
  - Fact-Checking eBook Content of Higher Secondary First Year Volume 1 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

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