

**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.

1. 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
2. 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)  $\mathbb{R} - \{-3\}$
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
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  $\operatorname{cosec} x \leq -1$
5.  $\cos 1^\circ + \cos 2^\circ + \cos 3^\circ + \dots + \cos 179^\circ$  is  
(1) 0 (2) 1 (3) -1 (4) 89
6. 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)  $2^{10}$
7. The remainder when  $2^{204}$  is divided by 15 is  
(1) 4 (2) 8 (3) 1 (4) 2
8. 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
9. 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)
10. 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

**Peipei Pang**



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