#### Namma Kalvi

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#### HIGHER SECONDARY FIRST YEAR

#### MATHEMATICS

#### MODEL QUESTION PAPER

Ť	ime	Alllow	red:	2.30	Hoursl

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.
- Use Blue or Black ink to write and underline and pencil to (b) draw diagrams.

#### SECTION - I

Notes

All questions are compulsory. (43)

 $20 \times 1 = 20$ 

- (an) 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<sup>27</sup>

 $(20.17^{3})$ 

(3) 34

(4) insufficient data

2. If R is the set of all real numbers and if  $f: \mathbb{R} - \{3\} \to \mathbb{R}$  is defined by  $f(x) = \frac{3+x}{3-x}$  for

 $x \in \mathbb{R} - (3)$ , then the range of f is

(2)  $\mathbb{R} - \{1\}$ 

(3) R - {-1} (4) R - {-3}

3. If the sum and product of the roots of the equation  $2x^2 + (\alpha - 3)x + 3\alpha - 5 = 0$  are equal, then the value of air

(1)1

(2) 2

(3) 0

(4)4

4. Which one of the following is not true?

 $(1) |\sin x| \leq 1$ 

(2) lpec xl < 1.</p>

(3)  $|\cos x| \le 1$ 

(4) cosec  $x \ge 1$  or cosec  $x \le -1$ 

5. cos1" + cos2" + cos3" + -- + cos179" is

(3)-1

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) 104

 $(4) \cdot 2^{10}$ 

7. The remainder when 2 Hos is divided by 15 is

(1)4

(2) 3

(3) 1

S. The harmonic mean of two positive numbers whose anthmetic mean and geometric mean are 16, S respectively is

(1)10

(2)6

(3)5

(4)4

9. In the equation of a straight line  $\alpha x + \delta y + c = 0$ , if  $\alpha, \delta, c$  are in anthmetic 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

 $(4)\frac{3}{2}$ 

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**Patrick Vollmar** 

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