

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) $\frac{3}{2}$

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