

AP SUPER GURU MODEL TEST PAPER – 1

MATHEMATICS (UNSOLVED)

Time Allowed : 3 Hours

CLASS – X

Maximum Marks : 80

Note

- All questions are compulsory.
- Part 'A' has 1 to 3 Questions.
 - Que. No. 1 consists of 16 Multiple Choice Questions carrying 1 mark each.
 - Que. No. 2 consists of 7 True/False type questions carrying 1 mark each.
 - Que. No. 3 consists of 7 Fill in the blanks type questions with options carrying 1 mark each.
- Part 'B' contains question No. 4 to 7 of 2 marks each.
- Part 'C' contains question no. 8 to 13 of 4 marks each. Any three questions of these questions have internal choice. Question 12 or part will be of case study.
- Part 'D' contains Questions no. 14 to 16 each of 6 marks. All these questions have internal choice.

PART – A

Each questions is of 1 mark in this part :

(16 × 1 = 16)

1. Choose the right option from the following questions :

- $5 + \sqrt{2}$ is a/an number.

(a) rational	(b) irrational	(c) natural	(d) whole
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- HA real number k , is a zero of the polynomial $P(x)$ if

(a) $P(k) = 0$	(b) $P(k) < 0$	(c) $P(k) > 0$	(d) None of these
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- The zeroes of a polynomial $f(x)$ are the coordinates of the points, where the graph of $y = f(x)$ intersects the

(a) x-axis	(b) y-axis	(c) (x, y)	(d) origin
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- Which value of k , does the pair of lines $3x - 3y = 6$ and $kx - 9y = 18$ are coincident ?

(a) 2	(b) 3	(c) 9	(d) 6
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- Which of the following is not a quadratic equation ?

(a) $x - \frac{3}{x} = 4$	(b) $3x - \frac{5}{x} = x^2$	(c) $x + \frac{1}{x} = 4$	(d) $x^2 - 3 = 4x^2 - 4x$
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- Which is the common difference of an A.P. whose n th term is $a_n = \dots$

(a) $a_{n+1} + a_n$	(b) $a_n = a + (n-1)d$	(c) $a_n = S_{n+1} - S_n$	(d) $d = a_{n+1} - a_n$
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- All equilateral triangles are

(a) congruent	(b) similar	(c) equal	(d) consistent
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- $1 - \cos^2 \theta =$

(a) $\sec^2 \theta$	(b) $\sin^2 \theta$	(c) $\tan^2 \theta$	(d) $\operatorname{cosec}^2 \theta$
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