

**PM SHRI KENDRIYA VIDYALAYA GAJAPATI**

**SUBJECT : MATHS**

**MONTHLY TEST -1 (2025-26) Time : 1.5 Hrs**

**CLASS: X**

**Max**

**Marks:40**

General Instructions:

1. This Question paper consists of five sections A, B, C, and D . Each section is compulsory. However, there are internal choice given in some questions.
2. Section A has 10 MCQ's of 1 mark each.
3. Section B has 5 Very Short Answer type questions of 2 marks each.
4. Section C has 3 Short Answer (SA) type questions of 3 marks.
5. Section D has 2 Long Answer (LA) type questions of 4 and 5 marks each .

SECTION- A

(Multiple Choice Questions: Each question carries 1mark.)

Q1.	If $\alpha, \beta$ are the zeroes of the polynomial $x^2 - 16$ , then $\alpha\beta$ ( $\alpha + \beta$ ) (a) -4                      (b) -16                      (c) 0                      (d) 16	1
Q2.	If two positive integers $a$ and $b$ are written as $a = x^3y^2$ and $b = xy^3$ , where $x$ and $y$ are prime numbers, then the HCF ( $a, b$ ) is: (a) $xy$ (b) $xy^2$ (c) $x^3y^3$ (d) $x^2y^2$	1
Q3.	The HCF of 52 and 130 is (a) 52                      (b) 130                      (c) 26                      (d) 13	1
Q4.	The prime factorisation of 96 is: (a) $2^5 \times 3$ (b) $2^6$ (c) $2^4 \times 3$ (d) $2^4 \times 32$	1
Q5.	The zeroes of quadratic polynomial $t^2 - 15$ are (a) $\sqrt{15}, -\sqrt{15}$ (b) $\sqrt{15}, \sqrt{12}$ (c) $\sqrt{15}, -\sqrt{12}$ (d) $\sqrt{15}, -15$	1
Q6.	Find the value of $k$ for which the lines $-2x + 5y = 15$ and $-10x - ky = 75$ have infinite number of solutions. (a). 5                      (b) -5                      (c) 25                      (d) -25	1
Q7.	A quadratic polynomial whose sum and product of zeroes are $-5$ and $6$ is..... (a) $x^2 - 5x - 6$ (b) $x^2 + 5x - 6$ (c) $x^2 + 5x + 6$ (d) none of the above.	1
Q8.	The quadratic polynomial whose zeroes are $-1$ and $1$ is (a) $x^2 + 1$ (b) $x^2 - 1$ (c) $x^2 + x$ (d) $x^2 - x$	1



