

**PERIODIC TEST-2
CLASS X (2024-2025)
MATHEMATICS**

MLM:80

Time: 3 hrs

General Instructions:

1. This Question Paper has 5 Sections A, B, C, D and E.
2. Section A has 20 MCQs carrying 1 mark each.
3. Section B has 5 questions carrying 02 marks each.
4. Section C has 6 questions carrying 03 marks each.
5. Section D has 4 questions carrying 05 marks each.
6. Section E has 3 case based integrated units of assessment (04 marks each) with sub-parts of the values of 1, 1 and 2 marks each respectively.
7. All Questions are compulsory. However, an internal choice in 2 Qs of 5 marks, 2 Qs of 3 marks and 2 Questions of 2 marks has been provided. An internal choice has been provided in the 2 marks questions of Section E.
8. Draw neat figures wherever required. Take $\pi = 22/7$ wherever required if not stated.

SECTION A (MCQ Type Questions)

(Section A consists of 20 questions of 1 mark each.)

- 1) If $a = 2^2 \times 3^x$, $b = 2^2 \times 3 \times 5$, $c = 2^3 \times 3 \times 7$ and $\text{LCM}(a, b, c) = 3780$, then x is
a) 1 b) 2 c) 3 d) 0
- 2) The sum of exponents of prime factors in the prime factorisation of 196 is
a) 2 b) 3 c) 4 d) 5
- 3) In given figure, the graph of a polynomial $f(x)$ is shown. The number of zeroes of $f(x)$ will be
a) 1 b) 2 c) 3 d) 4
- 4) The zeroes of the quadratic polynomial $p(x) = x^2 + 25x + 156$ are
a) Both positive b) both negative
c) one positive and one negative d) both equal
- 5) The quadratic polynomial, the sum of whose zeroes is 3 and the product of its zeroes $-\frac{2}{5}$, is
a) $x^2 - 3x - \frac{2}{5}$ b) $x^2 - 3x - 2$
c) $5x^2 - 15x + 2$ d) $15x^2 - 5x + \frac{2}{5}$
- 6) For what value of k , $2x + 3y = 4$ and $(k + 2)x + 6y = 3k + 2$ will have infinitely many solutions?
a) 0 b) 1 c) 2 d) 3
- 7) The nature of roots of the quadratic equation $x^2 - 4x + 3\sqrt{2} = 0$ is
a) No real roots b) 2 equal real roots
c) 2 distinct real roots d) More than 2 real roots



Maths Practice Paper 2

S.K. Gupta & Anubhuti Gangal

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

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