Mathematics (New Con Con Con Sth. GFFeshirm) (For Board's Office use only) Mathematics (New) 9th (Fresh/Reappear) Marks: 75 Time Allowed: 2 Hours Note:- There are THREE section in this paper i.e Section A,B, and C. Attempt Section-A on the same paper and return it to the Superintendent within the given time. No marks will be awarded for Cutting, Erasing or Overwriting. Marks of Identification will lead to LEM Cas Mobile Phoe etc are not allowed in the exam Time Allowed:2 HoursSECT Marks:- 15 option i.e. A, B, C or D in the empty box provided opposite to each part. The quotient of two complex numbers is _ Imaginary Read or None C Real imaginary Expression of the form P(x)/Q(x) is a Rational None A Rational Binomial Expression number Algebraic expression HCF of a^3-b^3 and a^2+ab+b^2 is iii. $(a-b)^2$ a-b a+b The solution set of |-x| = 0 is iv. {-1} C
The mid point of the segment AB where A (3,0) and {1} \mathbb{V}_{\bullet} B(3,4) is (3, 3)(6, 2)(6, 4)are concurrent vi. Perpendicular Medians of All of D Bisectors of bisectors of thea triangle of the the angles of above a triangle sides of triangle vii. x x-y-y x+y= $x^2 + y^2$ $x^2 + y^2$ x + y x - y A $x^2 - y^2$ $x^2 + y^2$ $x^2 + y^2$ $x^2 + y^2$ In equilateral triangle ABC, the bisectors of Log₁₀ Mayone of divides the triangle into the two congruent friangles. A ix. 100 None B 10 0 $a^2 - b^2 =$ X. $(a-b)^2+2ab$ ' (a+b)(a-b) (a-b)(a-b) None B Diagonals of a square are ____to each other. xi. Perpendicular Not Congruent Congruent Both A&B B The characteristic of log 0.00325 is _____. Factors of $x^2+2x-24$ are x+3, x-8x+4, x-6x-4, x+bx+8, x-3The determinant of the matrix [3 -4] is xiv. -2 The solution set of linear equation in an every land.

One element Two elements to element Infinite number of elements. number of elements PR X (01) 15 Mathematics (New) 9th (Fresh/Reappear) Note:- Time allowed for Section-B and Section-C is 2 Hours and 40 minutes. SECTION-B Marks: 36 Attempt any NINE parts. Each part carries FOUR Marks. Solve by Cramer's Rule x-2y = 5, 2x-y=6. Simplify $\left(\frac{36}{40}\right)^{\frac{1}{2}}$ Simplify with the help of logarithm (28.65)4 Rationalize the denominator and COM COM Land Company of the Compan Draw the graph of the equation x+y=4. 6. Find the value of a³-b³ when a-b=2 and ab=15. Find the HCF of $2x^3 + 7x^2 + 4x - 4$ and $2x^3 + 9x^2 + 11x + 2$. 8. Simplify $\frac{2x}{3x-12} \div \frac{x^2-2x}{x^2-6x+8}$ 9. Find the square root of $x^6-2x^5+3x^4-2x^3+x^2$. 10: Sum of three consecutive numbers is 24. Find the numebrs. Find the solution set of the equation |5x - 13| + 2 = 14Note:- Attempt any THREE questions earry
equal marks

Q-III By us Wallance formula, Show that the points A (-3, -4), B (2,6) and C (0,2) are collinear. Q-IV Prove that if two opposite sides of a quadrilateral are congruent and parallel, it is a parallelogram. Prove that the bisectors of the angles of a triangle are concurrent. Q-VI Construct \triangle PQR, when mPQ = 7cm, mQR = 6.5 and mPR = 5.8cm