PR IX(01)16

Mathematics(New)

9th (Fresh/Reappear)

hall.

ii.

iii.

IV.

C. a+b d. None of these. (D) xiii. The additive inverses of $\sqrt{\frac{1}{2}}$ $\sqrt{\frac{$ The tow coordinate axis intersect at an angle of xiv. The solution set of $\sqrt{x} = -10$ isA {} B: {-10} c. {10} d. {100}

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Note: Time allowed for section –B and section –C is 2 hours and 40 minutes.

QII. Attempt any Nine parts. Each part carries four Marks.

Section B

1. Sho that
$$(AB)^1 = B^1A^1$$
, where

$$A = A \begin{bmatrix} 2 & 5 \\ 4 \end{bmatrix} B = \begin{bmatrix} -1 & 1 \\ 2 & 3 \end{bmatrix}$$

XV.

2. If $A = \begin{bmatrix} -1 & 1 \\ 2 & 3 \end{bmatrix}$ then compute A^{-1} . 3. Simplify $\frac{2^{p+1}.3^{2^{p-q}}.5^{p+q}.6^4}{6^p.10^{q+2}.15^p}.$

4. Simplify $\frac{(84.5)^{\frac{3}{3}}\sqrt{39.7}}{23.4}$ with help of logarithm.

5. Find the value of $(a^3 - b^3)$, when (a-b)=2 and ab=15.

 $(x^4 + 5x^3 - 6x^2 - 2x - 28)$ and their Health (x-2) find their L.C.M. 10. Simplify 11. Solve the radical equation $2\sqrt{5}x - 1 = \sqrt{2}x + 4$.

12. Draw the graph of the equation x+2y=6. Marks:24 Section C Note: Attempt any three questions. All question carry equal marks. Show that the point (3.2), (4,1) and (6,3) are the vertices of a parallelogram. QIV. Prove that if two angles of a triangle are congruent. Then the sides opposite to them are also congruent. QV. Prove that in a right angle triangle, the square of the length of hypotenuse is equal to the sume of the squares of the

lengths of the others two sides.

QVI. Construct a $\triangle ABC$, where

 $mAB = 7cm, mCA = 6cm \text{ and } m \angle B = 45^{\circ}$