JEE Main Paper 2 Answer Key & Question Paper – Shift 2 (Memory Based)

- If z_1 and z_2 are two non-zero complex number such that $|z_1 + z_2| = |z_1| + |z_2|$, then $\arg z_1 - \arg z_2$ is equal to- **Answer** - 0
- If $0 < P(A) < 1$, $0 < P(B) < 1$ and $P(A \cup B) = P(A) + P(B) - P(A)\,P(B)$, then **Answer** - $P(A/B) = P(A)$
- If $f:(1, \infty) \longrightarrow (2, \infty)$ is given by $f(n) = n+1$, the $f^{-1}(n)$ equals to **Answer**- $x + \sqrt{x^2 - 4}\,/\,2$
- If B and C are the square matrix of order n, and if A=B+C and BC = CB and $C^2 = 0$. Then for any positive integer P, $A^{P+1} = B^k\,[B+(P+1)C]$ **Answer**- P
- The point on the curve $y^2 + 3x = 12y$, when the tangent is vertical, is (are)?
- If the circle passes through the point (ab) and cuts the circle $x^2+y^2=K^2$ orthogonally shown, the equation of the centre is: **Answer**- $2ax + 2by - (a^2 + b^2 + k^2) = 0$
- The area bounded by the curves $y = \sqrt{x}$. $2y+3 = x$ and x-axis in the 1st quadrant is – **Answer**- 9 sq units

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