

JEE Main 23rd Feb Shift 2 Memory-Based Questions - CollegeDekho

Section	Questions
<p>Mathematics</p>	<ul style="list-style-type: none"> • 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 - $\arg z_1 - \arg z_2 = 0$ • 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 $f: (1, \infty) \rightarrow (2, \infty)$ is given by $f(n) = n+1$, the $f^{-1}(n)$ equals to Ans. $x + \sqrt{x^2 - 4} / 2$ • 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, $AP + 1 = Bk [B + (P+1)C]$ Ans. P • The point on the curve $y^2 + 3x = 12y$, when the tangent is vertical, is (are)? • If the circle passes through the point (a, b) and cuts the circle $x^2 + y^2 = k^2$ orthogonally shown, the equation of the centre is..... $2ax + 2by - (a^2 + b^2 + k^2) = 0$ • The area bounded by the curves $y = \sqrt{x}$, $2y + 3 = x$ and x-axis in the 1st quadrant is - Ans. 9 sq units <div data-bbox="507 891 1356 1070" style="background-color: #f0f0f0; padding: 5px; margin: 10px 0;"> <p>$4\sin^2\theta - 8\sin\theta + 3 = 0$, then the no of real roots? when $\theta \in \left[-\frac{3\pi}{4}, \frac{\pi}{4}\right]$</p> </div> <div data-bbox="485 1218 1396 1366" style="background-color: #f0f0f0; padding: 5px; margin: 10px 0;"> <p>$x^2 + x + 1 = 0$ then, $-\left\{\left(x - \frac{1}{x}\right)^2 + \left(x^2 - \frac{1}{x^2}\right)^2 + \left(x^3 - \frac{1}{x^3}\right)^2\right\}$</p> </div> <div data-bbox="504 1442 1396 1594" style="background-color: #f0f0f0; padding: 5px; margin: 10px 0;"> <p>If $x^2 + x + 1 = 0$ then, $-\left\{\left(x - \frac{1}{x}\right)^2 + \left(x^2 - \frac{1}{x^2}\right)^2 + \left(x^3 - \frac{1}{x^3}\right)^2\right\} = ?$</p> </div>

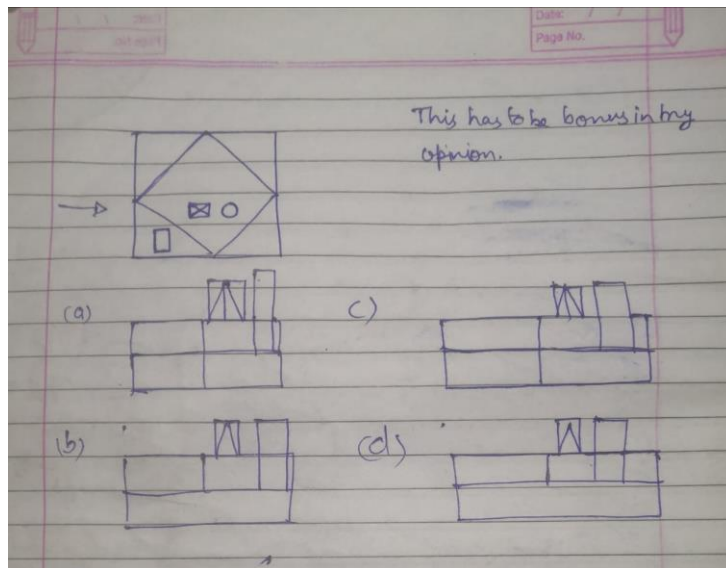
$$1. \int_{-4}^4 |9-x^2| dx$$

$$2. \int_0^{\pi} \sqrt{\frac{1+\cos 2x}{2}} dx$$

Find the number of solutions from $[0, \frac{\pi}{2}]$

5) If $x^2 + x + 1 = 0$ then,
 $-\left[\left(x - \frac{1}{x}\right)^2 + \left(x - \frac{1}{x}\right)^3 + \left(x - \frac{1}{x}\right)^4 \right]$

6) A_1, A_2, A_3, \dots are in G.P.
 $\frac{1}{A_4} + \frac{1}{A_8} = \frac{10}{63}$ and $A_5 \cdot A_7 = 441$,
 then find $3(A_2 + A_3) = ?$



Planning-Based Questions	<ul style="list-style-type: none"> Who is the architect of IIM Ahmedabad - Answer Louis Kahn
General Aptitude	<ul style="list-style-type: none"> Who was the first Indian architect to win Pritzker prize in 2018
Drawing Questions	<ul style="list-style-type: none"> Copy a Portrait Given Color either a kite festival or a composition with cubes and cuboids of given dimensions in the cool colour scheme

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| | <ul style="list-style-type: none">• Draw using the following :<ol style="list-style-type: none">1. A cube of $(2 \times 2 \times 2)$ (forgot no. allowed to use, maybe 8 or 6)2. A cube of $(2 \times 4 \times 6)$ ($n=4$) |
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More questions will be added soon. If you have appeared for the exam, please share your questions on
Whats App Number 9059528251.

<u>JEE Main 2021 Rank Predictor</u>	<u>What is a Good Score in JEE Main 2021?</u>	<u>JEE Main 2021 Paper 2 (B.Arch, B.Plan) Answer Key</u>
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