

JEE Main 23rd Feb 2021 Shift 1 (Paper 2) Memory-Based Questions – CollegeDekho Exclusive

Section	Questions
Mathematics	<ul style="list-style-type: none"> • If $A+B+C = 180$ degrees. Then, find $\tan A + \tan B + \tan C = ?$ - Answer - $\tan A \tan B \tan C$ • If Z_1 and Z_2 is a unimodular complex number that satisfy $Z_1^2 + Z_2^2 = 4$. Then $(Z_1 + Z_2)^2 + (Z_2 + Z_1)^2$ is equal to? Answer is 12 • Evaluate $(e^{\log x} + \sin x) \cos x dx$ • Area of the triangle formed by the complex number z, iz and $z+iz$ is _____ Ans. $1/2 z ^2$ • Find the equation of the normal to the curve $x^2 = 4y$ which passes through the point $(1,2)$. Ans. $x+y = 3$ • No. of divisors of the form $(4n + 2)$, of the integer 240 is - Ans. 20 • The DE representing the family of curves $y^2 (2c + x^{2021})$ where c is the +ve parameter is of? Ans. Order 1 • Given $x = cy+bx$, $y = az+cx$, $z = bx+ay$ where x, y and z are not all zero, then $a^2 + b^2 + c^2 + 2ab =$ _____ Ans. 1 • The minimum number of times a fair coin needs to be tossed so that the probability of getting at least two heads is at least 0.96 is _____ Ans. 8 • If $x > 1$, $y > 1$, $z > 1$ are in GP, then $1/1+\ln x$, $1/1+\ln y$, $1/1+\ln z$ are in _____ Answer - HP
General Aptitude	<ul style="list-style-type: none"> • Who was the designer of the world trade center? - Ans. Minoru Yamasaki, Emery Roth • A person writes letters to 6 friends and addresses a corresponding envelope. The number of ways in which 5 letters can be placed in the wrong envelope is?
Drawing Questions	There was a question related to Corona Vaccination & Booth (Not completely sure about questions - to be updated soon)

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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