JEE Main Paper 2 Answer Key & Question Paper – Shift 1 (Memory Based)

Section	Questions & Answer
Mathematics	If A+B+C = 180 degrees. Then, find tanA+tanb+tanC =? – **Answer - tanA tabB tanC**
	If Z_1 and Z_2 is a unimodular complex number that satisfy $Z_1^2+Z_2^2=4$. Then $(Z_1+Z_1)^2+(Z_2+Z_2)^2$ is equal to? **Answer is 12**
	Evaluate $(e^{logx} + sinx)cosxdx$
	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
	The locus of the midpoint of the chord of the circle x 2+y 2=4 which subtends a right angle at the origin is? -**Ans.** $x^2 + y^2 = 2$
	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+lnx, 1 /1+lny, 1 /1+lnz are in _ **Answer -** HP
	If A, B and C are vector such that |B| = |C| then {(A+B) x (A+C)} x (B+C) x (BxC) = _
General Aptitude	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

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