IIT JAM 2023 Mathematics Question Paper (Memory Based)

Question. $n^2 + 2n + 2$

Question. $\sin 1/n$ and $\sin 1/n^3$

Question. n integrate 0 to1 $x^{n+1} / x+1$ n tend to inf

Question. $\lim [1 + 1/2^n + 1/3^n \ldots\ldots + 1/2023^n]^{1/n} = ?$

Question. RANK OF AB is 0 A 3x4 matrix B 4x4 then rank of Max B

Question. write sum $2n+1/(n^2+1)(n^2+2n+1)$

Question. $y'' + x^2 < 0$ then $y(x) < 0$ in $(0,1)$ or > 0

Question. f'' has exact two distinct roots then distinct roots of f' and f

Question. sinxcosydxdy double integration o to $\pi/2$

Question. $\sin(1/n3)$ and $\sin(1/n)$ convergence of both

Question. $z = (x-1)^2 + (y-1)^2$ area between z= 2 and 3

Question. Maximum number of an element in S8, S6 (Order based question)

Question. $p(x)$ to $p(x^2)$ and find rank

Question. $2n+1 /(n^2+1)(n^2+2n+2)$

Question. s8 max order?

Question. if sum of element of every row & every column is zero then dim of the subspace in M3(R)

Question. riemann integral

Question. Given A, AB is null then max rank of B

Question. A is 3*5 matrix and B is 5*5 then rank of B is?

Question. no. of elements in S4 having exact two cycles in NAT2