

MHT CET 13<sup>th</sup> Oct 2020 Shift 1 Memory-Based Questions (Mathematics)



There was a question on Sequence and Series $2+4+6+\dots+N/1+3+5+\dots+N$ Find the Value of 'N'	$A = (1,4), B = (2, 3, 4, 5)$ Find Number of Elements in A Intersection B and A Union B
$\sec X + \tan X = 3$ . Find out $\sin X$ Value?	$\tan x = 1/3$ - Find out $\cos 2x$ value
integration of $\sec x / \sqrt{\log(\sec x + \tan x)}$	$A = \begin{pmatrix} 1 & 2 & 4 & 7 \end{pmatrix}$ Find Out $A^2 - 4A + I = O$ $= A^{-1}$ ?
$5^2+6^2+7^2+\dots+20^2$ <b>Answer - 2840</b>	There was a question on Rolle's Theorem
$x = \log t, y+1 = 1/t$ - Find out $d^2y/dx^2$	

**Topics with High Weightage in Physics**

Thermodynamics	Rotational Motion
Semiconductors	Kinetic Theory

**Topics with High Weightage in Chemistry**

s-Block Elements	Chemical Kinetics
p, d & f-block elements	Electrochemistry

**Topics with High Weightage in Mathematics**

Vector 3D	Integration
Differential Calculus	Matrices