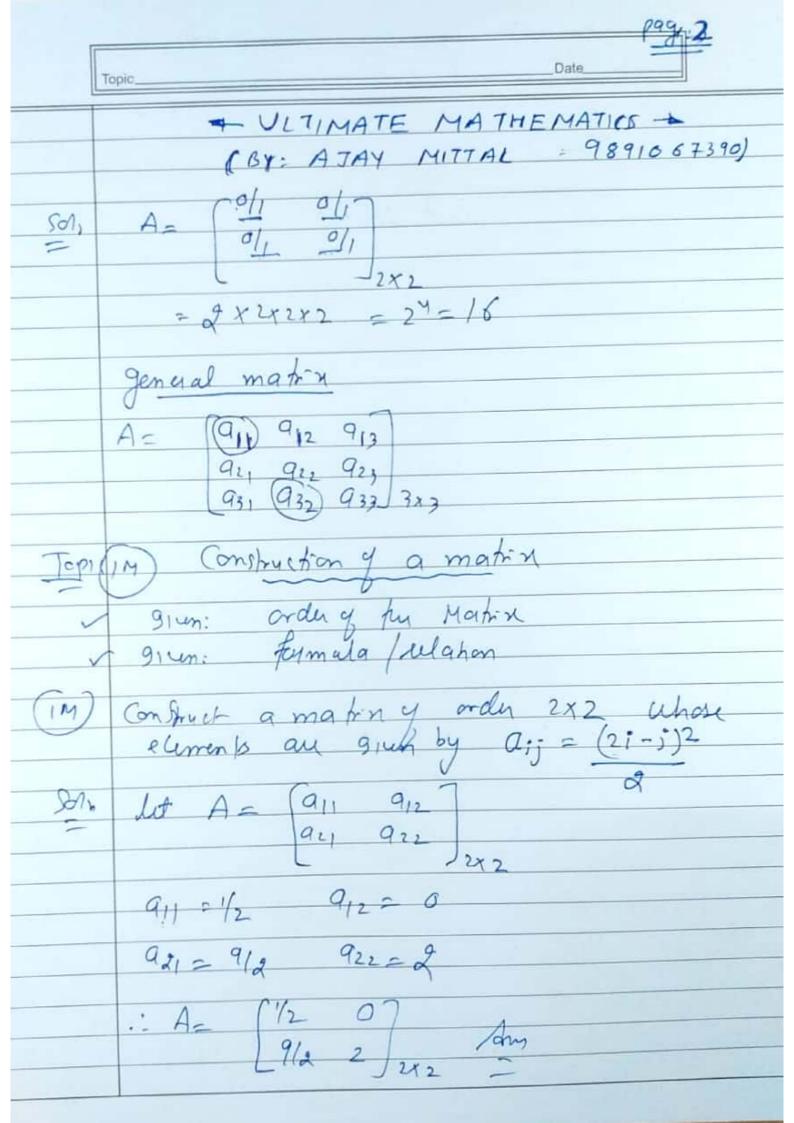
Т	opicDatePage_1
	(BY: AJAY MITTAL: 9891067390)
	MATRICES & Deferminants: total (3) (4) (5)
75.	Matrice
(·)	Symbol =
9 94	A= (2-10)
	1 3 Evelements
eg	$A = \begin{cases} X & Sin X & i \\ 2 & -1 & a \end{cases}$
(.)	Rous = concumns 1
(.)	ORDER y a Madry. Rouse column
(-)	$\begin{array}{c} ey & A = \begin{pmatrix} 2 & -1 & 0 \\ 1 & 3 & 4 \end{pmatrix}$
(14)	A maken has 15 elements. What are the possible orders it can have? 1×15, 15×1, 3×5, 5×3
Muha	1x15, 15x1, 3x5, 5x3
	A matrix by order 2x2. Each element is either to or 1. How many possible



page - 2 - ULTIMATE MATHEMATICS Topic_ (BY: AJAY MITTAL: 9891067390) Types of Matures. Syace ma fix: Rous = corcumns A= 3x3 + Plinepal diagonal Identy Matry (Unit Matin) 0. 0, Scalar Makin 3 same B-0 0 6 0 A=drag (3, i. 06 Diggeral Matrin 0 A= 0 0 20

Fule: order must be same $A = \begin{bmatrix} 1 & 2 & 3 \\ 2 & -3 & 4 \end{bmatrix} & 8 & 8 = \begin{bmatrix} 3 & -1 & 0 \\ 1 & 2 & 5 \end{bmatrix}$ -4 & 5A + 2B $\begin{bmatrix} 5 & 10 & 15 \\ 10 & -15 & 20 \end{bmatrix} + \begin{bmatrix} 6 & -2 & 0 \\ 2 & 4 & 10 \end{bmatrix} = \begin{bmatrix} 11 & 8 & 15 \\ 12 & -11 & 20 \end{bmatrix}$

Topic - ULTIMATE MATHEMATICS -(BY: AJAY MITTAL: 9891067390) (2) Myltiplication: Ruce eg A3= 2+3+3 A2 - AA Anmust on a gray () A3 = A2. A efually of two Matirey

Fird rating 7 8 by 2x-y= [5] 10]

Fird rating 1 by 2x-y= 5 | sine 2x-y= 10]

page 6 LL A3_6A2 +7A+2I - [0000]=

	ग् अम भी भिरिराज भी महाराज ग्र
ON5: 1-	with each entry o or 1
	with each entry 2,-1,0
OM:3	eliments are green by aij = (i+2j)2
	by aij = 1 -3itj
0 M 5-	Construct a matrix of order 3×2 when i = j (i+j) : when i = j (i+j : when i = j
04.6	I construct a matrix of order 2x2 where elements are grown by aij - { i+j; i z j + (i-1) : i < i
F.MO.	au giun by aij = e six sin(jx)
OM 8	If a matrix has 26 elements, what are the possible orders
	order it can hav?
Om-10	Find try value of x, y, z if [x+y 2] = [6 2] [5+2 xy] = [5 8]

OM: 11 - Find the	value of a, b, c, d ($7 \left[\begin{array}{cccc} q - b & da + c. \\ 2a - b & 3c + d \end{array} \right] = \begin{bmatrix} -1 & 5 \\ 0 & 13 \end{bmatrix}$
	thus equal (3x+7	
OM-13+ Find the value	ed x and y so that	$\begin{bmatrix} 2x+1 & 3y \\ 0 & y^2-5y \end{bmatrix} = \begin{bmatrix} x+3 & y^2+9 \\ 0 & -6 \end{bmatrix}$
ONI-14+ Find value of	a ma b so that [&	$\begin{bmatrix} 2 & b & 0 \\ 2a+1 & b^2-5b \end{bmatrix} = \begin{bmatrix} b^2+1 & 0 \\ a+3 & -6 \end{bmatrix}$
OM 15 = Find matrice $(1) X + Y = \begin{bmatrix} 7 \\ 2 \end{bmatrix}$	o X and Y if $X-Y=\begin{bmatrix} 3 & 0 \\ 5 & 1 \end{bmatrix}$	AMS: $X = \begin{bmatrix} 5 & 0 \\ 1 & 4 \end{bmatrix}$ $\begin{cases} 2 & -2 \\ -1 & 5 \end{cases}$ AMS:
$OM_{16} + F_{8} A = [$	$\begin{bmatrix} 2 & 3 \\ 4 & 0 \end{bmatrix}$ and $3x + 27 = 2 \\ 2 & 1 & 3 \\ 1 & -1 & 0 \end{bmatrix}$ Find $A^2 - 2 \\ 1 & -1 & 0 \end{bmatrix}$	[2 -2] AMS: -5A + CF: [1 -1 -3]
0~17+ 7 A= [2 0 3 Show that	A3-6A2+7A+21=0
	-ANSWERS -	
(1). 512 (2). 729	[6]- [2 -1/2]	(11). a=1, b=2, C=3, d=4
(31. [9/2 25/2]	(7). C24 SINX C2X SIN2X	(12): Alot Polsible to
(4). [1 1/2 10 1/2] S 2 2 3/2 1	(81. 1x26, 26x1, 2x13, 13x2 (91. 1x15, 15x1, 3x5, 5x3	(17). x=2, y=2 (14). hlo value 4 9 6 b
(5). [1 1] (5). [1 2]	(101. X=4, Y=2, Z=0 (0A) X=2, Y=4, Z=0	$ \begin{array}{c} (15)(1) \times = \begin{bmatrix} 215 & -1215 \\ -11/5 & 3 \end{bmatrix} \\ Y = \begin{bmatrix} 215 & 13/5 \\ 14/5 & -2 \end{bmatrix} $