•	Subject: Math	Class: 9 th	Time: 60 minutes	Total Marks:	30	
Number:]	MJDexpert.com		Obtained marks		
Q.No.1 Choose the 1. Order of the trar	correct Answer.($\frac{6 \times 1 = 6)}{1}$				
a) $1 - by - 3$	b) $3 - by - 1$	c) 2	-bv-3	d) 3 – <i>I</i>	$\overline{\nu}\nu - 2$	
2. Product of $[x \rightarrow x]$	$\frac{1}{1} \begin{bmatrix} 2 \\ is \end{bmatrix}$					
a) $[r + 2v]$	$\frac{1}{1} - 1$	c) [2	$v \perp r$]	d) $[2y -$	- v]	
3. Arthur Calev int	roduces the theory of n	natrices in:	$y + \lambda$]	u) [2y -	- <i>λ</i>]	
a) 1858	b) 1958	c) 17	758	d) 1998	}	
4. $\begin{bmatrix} K & 0 \end{bmatrix}$ is a scala	ar matrix if:	i z		i z		
$[0 \ K]^{-1}$	$\frac{1}{1} b K = 0$	c) K	c) $K = 3$		d) None	
5. $\begin{bmatrix} \sqrt{2} & 0 \\ 0 & \sqrt{2} \end{bmatrix}$ is calle	ed Matrix.				<u> </u>	
a) Zero	b) Scalar	c) Null		d) Identity		
6. The order of row	v matrix is:					
a) $1 - by - n$	b) $m - by - 1$	c) n	-by-n	d) <i>m</i> – .	by – n	
i. If $\begin{bmatrix} a+3 & 4 \\ 6 & B- \end{bmatrix}$ ii. Find the Multip	$\begin{bmatrix} -3 & 4 \\ 6 & 2 \end{bmatrix}$, then for the formula of Matrix Equation (1) and	ind a and b atrix B=	$\begin{bmatrix} 1 & 2 \\ -3 & -5 \end{bmatrix}$			
iii. Find Product [1	$\begin{bmatrix} 2 \end{bmatrix} \begin{bmatrix} 5 \\ -4 \end{bmatrix}$		- 0 - 0-			
iv. If $A = \begin{bmatrix} 1 & 2 \\ 0 & 1 \end{bmatrix}$ the	hen show that $A - A^t$	is skew-symmet	ric Matrix.			
v. Find the determ	ninant of $\begin{bmatrix} 3 & 2 \\ 1 & 4 \end{bmatrix}$.					
vi. Define Rectang	ular Matrix.					
vii. Define Diagona	l Matrix.					
viii. If $B = \begin{bmatrix} 1 \\ -1 \end{bmatrix}$ the	en evaluate $(-1)B$.					
Q.No.3: Give the lo	ong answers.(4 +	4 = 08)				
a) Solve by Cramer	's Rule .					
4x + 2y = 8	3x - y = -1					
$\textbf{\textbf{6}} \text{If } B = \begin{bmatrix} 1 & 1 \\ 2 & 0 \end{bmatrix} \text{the}$	en show that $BB^{-1} = I$.					
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