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	FBQ	If any matrix A is transformed into another matrix I a series of elementary row operations, then A and are		equivalent						
	FBQ	$1+rac{x}{1!}+rac{x^2}{2!}+rac{x^3}{3!}+\ldots$ is the series for $\exp x$		Maclaurin's	maclaurin					
	FBQ	If the Lagrange's interpolation polynomial of f(x) is given as $x^3-x^2+3x+8\;,$ then f (2) = 1 is	;	8	eight					
	FBQ	Given that f(3) = 168, f(7) = 120, f(3) =72 and f(10 63,the approximate value for f(6) is) =	147						
	FBQ	If AB = BA = I , then A is the of B		inverse						
	FBQ	is the determinant of system of equations: $4x_1+x_2+x_3=4$ $x_1+4x_2-2x_3=4$ $-x_1+2x_2-4x_3=2$	the	36						
	FBQ	Given that the Lagrange's interpolating polynomia $P(x)$ is given by $P(x)=L_0(x)f_0+L_1(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_2+L_3(x)f_1+L_2(x)f_1+$	$x)f_3$	7	seven					
	FBQ	A matrix having the same number of rows and columns is called ma	trix	square	Square					
	FBQ	A matrix in which all the non-diagonal elements vanish is known as matrix.		diagonal						

FBQ	A system of linear equations is said to be if it has at least one solution.	homogeneous				
FBQ	The transpose of the cofactor matrix of a square matrix A is called the A	adjoint	Adjoint			
FBQ	A matrix A = (aij) in which aij = 0 (i, j = 1, 2, n) is called	NULL	Null			
FBQ	Determinant is a number associated with matrices.	square	Square			
FBQ	A matrix A is if and only if it has a zero eigenvalue	singular				
FBQ	The process of determining the value of f(x) for a value of x lying outside the interval [a, b] is called	extrapolation				
MCQ	Iterative methods of the solutions of systems of equations are	finite	infinite	sequential	non-sequential	В
MCQ	One of these is not a method of solving system of linear equations	Inverse method	elimination method	Determinant method	Solution method	D
MCQ	The following statements are true except	The backward-difference form is suitable for approximating the value of the function at x that lies towards the end of the table.	Stirling's method is used whenever interpolation is required of x near the middle of the table of values.	\[For\; the\; central\; difference\; formulas,\; the \;origin\; x_0\;,\; should\; not \;be\; chosen \;near\; the\; point\; being\; approximated.\]	The Stirling's interpolation is used for calculation when x lies between \ [x_0 - \frac{1}{4}h\;and \;x_0 + \frac{1}{4}h\]	С
MCQ	The following statements are true except	The divided difference is independent of the order of its arguments.	The identity matrix I is a diagonal matrix in which all the diagonal elements are equal to one	A square matrix is lower triangular if all the elements above the main diagonal vanish.	The divided difference is dependent of the order of its arguments.	D
MCQ	One of the following is not true	Two matrices A and B can be multiplied only if the number of columns of A equals the number of rows of B.	Addition of matrices is defined only for matrices of same order.	Two matrices A and B can be multiplied only if the number of columns of B equals the number of rows of A.	A square matrix is lower triangular if all the elements above the main diagonal vanish.	Α
MCQ	The backward differences of order three \ [\triangledown ^3\; of\; f(x)\] is denoted by	\[\triangledown ^3 f_k = f_k - 3f_(k-2) - 3f_(k- 2) - f_(k-3)\]	\[\triangledown^3 f_k = f_k - 3f_(k- 2) - 3f_(k-2) - f_(k-3)\]	\[\triangledown ^3 f_k = f_k - 3f_(k-2) - 3f_(k-2) - f_k\]	\[\triangledown ^3 f_k = f_k - 3f_(k- 2) - 3f_(k-2) - f_k\]	В
MCQ	The inverse of the matrix \[\begin\{pmatrix\}\\ 1 & 2 & 3\\\0 & 4 & 5\\\0 & 0 & 6\end\{pmatrix\}\; is\;\]	\[\begin{pmatrix} 1 & \frac{-1}{3} & \frac{-1}{2}\\0 & \frac{1}{4} & \frac{-1}{4}\\0 & \frac{-5}{24}\\0 & \frac{1}{6}\end{pmatrix}\]	\[\begin{pmatrix} 1 & \frac{-1}{2} & \frac{1}{12}\\0 & \frac{1}{-4} & \frac{5}{24}\\0 & \frac{5}{41}\\0 & \frac{1}{1}	\[\begin\{pmatrix\}\ 1\ & \\frac\{-1\}{2\}\ & \\frac\{-1\}\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\[\begin{pmatrix} 1 & \frac{-1}{2} & 3\\0 & \frac{1}{4} & \frac{-5}{24}\\0 & 0 & \frac{1}{4} & \frac{-5}{24}\\0 & 0 & \frac{1}{6}\end{pmatrix}\]	С
MCQ	If the inverse of matrix B exists, then it is	universal	unique	united	unlimited	В

MCQ	Stirling's formula for interpolation is given by	\[P_n (x) = f (x_0) + s - 1}{2}\left[df_1+ d_(-\frac{1} {2})\right] + \frac{s^2} {2!}d^2f_0\]	\[P_n (x) = f (x_0) + \frac{s} {2}\left[df_(1/2) + d_(-\frac{1} {2}\\right] + \frac{s^2} {2}d^2f_0\]	\[P_n (x) = f (x_0) + \frac{s}{2}\left[df_(1/2) + d_(-\frac{1}{2})\right] + \frac{s^2}{2!}\df_0\]	\[P_n (x) = f (x_0) + \frac{s} {2}\left[df_(\frac{1} {2}) + d_(-\frac{1} {2})\right] + \frac{s^2} {2!}d^2f_0\]	D
MCQ	One of the following is true	\[\triangle ^3 f_4 = f_4 - f_3\]	\[\triangle ^3 f_4 = f^4 - f^3\]	\[\triangle ^3 f_4 = f_5 - f_4\]	\[\triangle ^3 f_4 = f_3 + f_4\]	A
MCQ	The inverse of a matrix A is given by	\[A^{-1} = \frac{1} {det(A)} adj(A)\]	\[A^{-1} = \frac{1} {det(A)}\]	$A = \frac{1}{\det(A)}$ adj(A)\]	A = det(A) adj(A)	A
MCQ	Theorem states that 'If f is a continuous function defined on [a, b] and differentiable on]a, b[; and If $f(a) = f(b)$, then there exists a number $x_{0} = 0$ and $x_{0} = 0$ a	Pythagoras	Chebyshev	Rolle's	Lagrange's Mean Value	C
MCQ	The Lagrange's interpolating polynomial P(x) is given by	\[P(x)=L_1(x)f_0 + L_0(x)f_1 + L_3(x)f_2 + L_2(x)f_3\]	\[P(x)=L_0(x)f_3 + L_1(x)f_2 + L_2(x)f_1 + L_3(x)f_0\]	\[P(x)=L_0(x)f_0 + L_1(x)f_1 + L_2(x)f_2 + L_3(x)f_3\]	\[P(x)=L_0(x)f_0 + L_1(x)f_2 + L_2(x)f_2 + L_3(x)f_3\]	(
MCQ	Solve the system of equations: $[a + b + c = 1] [4a + 3b - c = 6] [3a + 5b + 3c = 4]$	a = 1/2; b = -1; c = - 1/2	a = 1/2; b = 1; c = -2	a = 1; b = 1/2; c = - 1/2	a = 1/2; b = 1; c = - 1/2	(
MCQ	lem:lem:lem:lem:lem:lem:lem:lem:lem:lem:	\[P_{n}(x) = \sum_{k\to 0}^{n} \frac{f (x_{k}) } { (x -x_{k}) w'(x_{k})}\]	\[P_{n}(x) = \sum_{k\to 0}^{n} \frac{f(x_{k})} { (x - x_{k}) w'(x_{k})}\]	\[P_{n} (x) = w(x)\sum_{k\to 0}^{n} \frac{f(x_{k})}{(x - x_{k}) (x_{k})}^{1}	none of the above	,
MCQ	Find the inverse of the matrix \[\begin{pmatrix} 1 & 2 & 3\\0 & 4 & 5\\0 & 0 & 6\end{pmatrix}\]	\[\begin{pmatrix} 1 & 2 & 3\\0 & 4 & 5\\0 & 0 & 6\end{pmatrix}\]	\[\begin{pmatrix} 1 & -1/2 & \frac{-1}{12}\\0 & \frac{1}{4} & \frac{5}{24}\\0 & 0 & \frac{1}{6}\end{pmatrix}\]	\[\begin\{pmatrix\}\ 1 & \\frac\{1\{2\} & \\frac\{3\}\ \{0\} & 4 & \\frac\{5\}\ \{24\\\0 & 0 & 6\\nd\{pmatrix\}\]	\[\begin{pmatrix} 1 & 2 & \frac{1} \\ 12\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	[
MCQ	\[\Delta^2 f_k=\]	\[f_{k+1}-f_k\]	\[\Delta f_{k+1}- \Delta f_k\]	\[f_{k+2}-2f_{k+1}+f_k\]	All the options	[
MCQ	\[Let\;\;x_0, x_1, x_n \]be (n + 1) distinct points on the real line and $f(x)$ be a real-valued function defined on some interval I = [a, b] containing these points, then	there exists more than one polynomial of degree n	there exists exactly one polynomial of degree n	there exists two polynomials of degrees n and n+1	no polynomial of degree n exists	E
MCQ	A system of linear equations is said to be if not all its right hand side is zero	consistent	inconsistent	homogeneous	non- homogeneous	
MCQ	The eigenvalues of a diagonal matrix are	0 & 1	the diagonal elements themselves	all zeroes	all unity	E

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