11th Class FSC Mathematics Chapter 3 Test Online

Sr	Questions	Answers Choice
1	If A and B are two matrices, then:	A. A B = O B. AB = BA C. AB = I D. AB may not be defined
2	If A is a square matrix, then A + A^t is:	
3	The additive inverse of a matrix A is:	A. A B. A⁻¹ C. - A D. A²
4	For a square matrix A, |A| equals:	A. A^t B. |A^t| C. -|A^t| D. -A^t
5	A matrix of order m×1 is called:	A. row matrix B. column matrix C. identity matrix D. scalar matrix
6	If A is a square matrix, then A - A^t is:	
7	Question Image	A. scalar matrix B. diagonalmatrix C. lower triangularmatrix D. upper triangularmatrix
8	If A = $[a_{ij}]$, B = $[b_{ij}]$ and AB = 0 then:	A. A = 0 B. B = 0 C. either A = 0 or B = 0 D. A & B not necessarily zero
9	If A is a square matrix order 3 × 3 the |kA| equals:	A. k |A| B. k²|A| C. k³ |A| D. k⁴ |A|
10	If A is a matrix of order m × n, then the number of elements in each row of A is:	A. m B. n C. m + n D. m - n
11	Question Image	A. scalar matrix B. diagonalmatrix C. triangularmatrix D. none of these
12	Question Image	D. diagonal matrix
13	Question Image	D. None
14	Question Image	A. zero B. non-singular C. singular D. none of these
15	Question Image	A. 1 B. -5 C. -1 D. none
16	If each element in any row or each element in any column of a square matrix is zero, then value of the determinant is:	A. 0 B. 1 C. -1 D. none of these
17	Question Image	A. 2 B. -2 C. 5 D. -5

18	If A is non singular matrix then A^t is:	A. singular B. nonsingular C. symmetric D. none
19	If two rows (or two columns) in a square matrix are identical (i.e. corresponding elements are equal), the value of the determinant is:	A. 0 B. 1 C. -1 D. ±1
20	Question Image	D. diagonal matrix
21	If a matrix A is symmetric as well as skew symmetric, then:	A. A is null matrix B. A is unit matrix C. A is triangular matrix D. A is diagonal matrix
22	A^{-1} exists if A is:	A. singular B. nonsingular C. symmetric D. none
23	The order of a matrix is shown by:	B. number of columns + number of rows C. number of rows × number of columns D. number of columns - number of rows
24	Question Image	
25	Question Image	A. 3×2 B. 2×3 C. 2×2 D. 3×3
26	If A = [aij] and B = [bij] are two matrices of same order r × s, then order of A - B is:	A. r - s B. r × s C. r + s D. none of these
27	If the matrices A & B have the orders 2×3 and 5×2 then order BA is:	A. 3×5 B. 5×2 C. 2×2 D. none
28	Question Image	A. 5 B. -5 C. -4 D. 4
29	Question Image	A. singular B. non-singular C. rectangular D. null
30	Question Image	
31	Question Image	A. 9 B. -9 C. -6 D. none
32	A matrix in which each element is 0 is called:	
33	If each element of a 3 × 3 matrix A is multiplied by 3, then the determinant of the resulting matrix is:	A. |A|³ B. 27|A| C. 3|A| D. 9|A|
34	Question Image	A. 5 B. 14 C. 20 D. 6
35	Question Image	A. ab - cd = 0 B. ac - bd = 0 C. ad - bc = 1 D. ad - bc = 0
36	[0] is a:	
37	Question Image	A. 1 B. -1 C. -6 D. 6
38	Two matrices X and Y are equal if and only if:	A. X and Y are of same order B. Their corresponding elements are equal C. Both a and b D. None of these

		D. None of these
39	Question Image	A. 3×3 B. 3×2 C. 2×1 D. 2×3
40	If any two rows of a square matrix are interchanged, the determinant of the resulting matrix:	A. is zero B. is multiplicative inverse of the determinant of the original matrix C. is additive inverse of the determinant the original matrix D. none of these
41	Question Image	A. 40 B. -40 C. 26 D. -26
42	The trivial solution of the homogeneous linear equations is:	A. (1, 0, 0) B. (0, 1, 0) C. (0, 0, 1) D. (0, 0, 0)
43	If A is a matrix of order m × n and B is a matrix of order n × p then the order of AB is:	A. p×m B. p×n C. n×p D. m×p
44	Question Image	A. 3×1<!--[if gte msEquation 12]><m:oMathPara><m:oMath><m:d><m:dPr><m:begChr m:val="["/><m:endChr m:val="]"/><span style='font-size:16.0pt;mso-ansi-font-size:16.0pt;mso-bidi-font-size:16.0pt;font-family:"Cambria Math","serif"; mso-ascii-font-family:"Cambria Math";mso-fareast-font-family:"Times New Roman"; mso-fareast-theme-font:minor-fareast;mso-hansi-font-family:"Cambria Math"; mso-bidi-font-family:"Calibri Light";mso-bidi-theme-font:major-latin; color:#202124;background:white;font-style:italic;mso-bidi-font-style:normal'><m:ctrlPr></m:ctrlPr></m:dPr><m:e><m:m><m:mPr><m:mcs><m:mc><m:mcPr><m:count m:val="1"/><m:mcJc m:val="center"/></m:mcPr></m:mc></m:mcs><span style='font-size:16.0pt;mso-ansi-font-size:16.0pt;mso-bidi-font-size: 16.0pt;font-family:"Cambria Math","serif";mso-ascii-font-family:"Cambria Math"; mso-fareast-font-family:"Times New Roman";mso-fareast-theme-font:minor-fareast; mso-hansi-font-family:"Cambria Math";mso-bidi-font-family:"Calibri Light"; mso-bidi-theme-font:major-latin;color:#202124;background:white; font-style:italic;mso-bidi-font-style:normal'><m:ctrlPr></m:ctrlPr></m:mPr><m:mr><m:e></m:e></m:mr><m:mr><m:e></m:e></m:mr><m:mr><m:e></m:e></m:mr><m:mr></m:m></m:e></m:d></m:oMath></m:oMathPara><![endif]--><!--[if !msEquation]--><span style="font-size:11.0pt;line-height:150%;font-family:"Calibri","sans-serif"; mso-ascii-theme-font:minor-latin;mso-fareast-font-family:SimSun;mso-hansi-theme-font: minor-latin;mso-bidi-font-family:Arial;mso-bidi-theme-font:minor-bidi; mso-ansi-language:EN-US;mso-fareast-language:EN-US;mso-bidi-language:AR-SA"><v:shapetype id="_x0000_t75" coordsize="21600,21600" o:spt="75" o:preferrelative="t" path="m@4@5l@4@11@9@11@9@5xe" filled="f" stroked="f"><v:stroke joinstyle="miter"><v:formulas><v:f eqn="if lineDrawn pixelLineWidth 0"><v:f eqn="sum @0 1 0"><v:f eqn="sum 0 0 @1"><v:f eqn="prod @2 1 2"><v:f eqn="prod @3 21600 pixelWidth"><v:f eqn="prod @3 21600 pixelHeight"><v:f eqn="sum @0 0 1"><v:f eqn="prod @6 1 2"><v:f eqn="prod @7 21600 pixelWidth"><v:f eqn="sum @8 21600 0"><v:f eqn="prod @7 21600 pixelHeight"><v:f eqn="sum @10 21600 0"></v:f></v:f></v:f></v:f></v:f></v:f></v:f></v:f></v:f></v:f></v:f></v:f></v:f></v:f></v:f></v:formulas><v:path o:extrusionok="f" gradientshapeok="t" o:connecttype="rect"><o:lock v:ext="edit" aspectratio="t"></o:lock></v:path></v:stroke></v:shapetype><v:shape id="_x0000_i1025" type="#_x0000_t75" style="width:27.75pt; height:61.5pt"><v:imagedata src="file:///C:\Users\Campus.pk\AppData\Local\Temp\msohtmlclip1\01\clip_image001.png" o:title="" chromakey="white"></v:imagedata></v:shape><!--[endif]--> B. 1×3 C. 3×3 D. 1×1
45	If AB = BA = I, then A and B are:	A. equal to each other B. multiplicative inverse of each other C. additive inverse of each other D. both singular
46	Question Image	A. 25 B. 20 C. 40 D. 2a + 2b + 2c
47	Question Image	A. scalarmatrix B. diagonalmatrix C. lower triangularmatrix D. uppertriangularmatrix
48	Minors and co-factors of the elements in a determinant are equal in magnitude but they may differ in:	A. order B. position C. sign D. symmetry
49	If A is a square matrix, then:	A. |A^t| = A B. |A^t| = -A C. |A^t| = |A| D. A^t= A

50	Question Image	A. 3 B. -3 C. 1/3 D. -1/3
51	Question Image	
52	Question Image	B. diagonal matrix