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### MATHEMATICS FOR ENGINEERS BASIC MATRIX THEORY TUTORIAL 2

PART A: MATRICES A matrix is basically an organized box (or "array") of numbers (or other expressions). In this chapter, we will typically assume that our matrices contain only numbers. Example Here is a matrix of size  $2 \times 3$  ("2 by 3"), because it has 2 rows and 3 columns:  $\begin{bmatrix} 10 & 2 & 0 \\ 15 & 2 & 0 \end{bmatrix}$  The matrix consists of 6 entries or elements.

### CHAPTER 8: MATRICES and DETERMINANTS

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### 1. Matrices, Linear Algebra, Engineering Mathematics, GATE ...

Question 5 (1\*) The  $2 \times 2$  matrix A is defined as  $\begin{bmatrix} 2 & a \\ b & -1 \end{bmatrix} = A$  where a and b are constants. The matrix A, maps the point P(2,5) onto the point Q(1,2)– a) Find the value of a and the value of b. A triangle T1 with an area of 9 square units is transformed by A into the triangle T2. b) Find the area of T2. a = – 1 , b = 6 , area 18=

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1. Row Matrix and Column Matrix: A matrix consisting of a single row is called a . row matrix or a row vector, whereas a matrix having single column is called a . column matrix or a column vector. 2. Null or Zero Matrix: A matrix in which each element is „0“ is called a Null or Zero matrix. Zero matrices are generally denoted by the symbol O.

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