VIDYA SHREE ACADEMY
SR. SEC. SCHOOL
An English Medium Co.Ed. School | Science & Commerce

W : www.vsajaipur.com | E : vsajaipur@gmail.com M. : +91 9460356652, 8058999828

Add. : 84, Krishna Vihar, Behind Narayan Niwas, Gopalpura Bypass, Jaipur - 302015

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Class – 12th   **Chapter-3**   **Subject Maths**

Worksheet-04   **Matrix**

1. Construct a 3 × 2 matrix whose elements are given by $a_{ij} = \frac{1}{2}|i - 3j|$

2. Construct a 2 × 2 matrix whose elements are given by $a_{ij} = 2i + 3j$.

3. Construct a 2 × 3 matrix whose elements are given by $a_{ij} = 3i - \frac{3}{2}j$.

4. Make two different matrix for each of following types of matrix and also mention their order:

   a. Column matrix   b. Row matrix

   c. Diagonal matrix   d. Scalar matrix

5. Find the value of *a*, *b*, *c* and *d* from the equation:

$$\begin{bmatrix} a - b & 2a + c \\ 2a - b & 3c + d \end{bmatrix} = \begin{bmatrix} -1 & 5 \\ 0 & 13 \end{bmatrix}$$