Q.1: Find the order of the matrix.

$$A = \begin{bmatrix} 2 & 3 \\ -5 & 6 \end{bmatrix}. \qquad B = \begin{bmatrix} 2 & 0 \\ 3 & 5 \end{bmatrix} \qquad C = \begin{bmatrix} 2 & 4 \end{bmatrix}$$

$$D = \begin{bmatrix} 4 \\ 0 \\ 6 \end{bmatrix} \qquad E = \begin{bmatrix} a & d \\ b & e \\ c & f \end{bmatrix} \qquad F = \begin{bmatrix} 2 \end{bmatrix}$$

Q.2: Which of the following matrices are equal?

$$A = [3]; \qquad B = \begin{bmatrix} 3 & 5 \end{bmatrix}; \qquad C = [5\text{-}2]; \qquad D = \begin{bmatrix} 5 & 3 \end{bmatrix};$$

$$E = \begin{bmatrix} 4 & 0 \\ 6 & 2 \end{bmatrix}; \qquad F = \begin{bmatrix} 2 \\ 6 \end{bmatrix}; \qquad G = \begin{bmatrix} 3 - 1 \\ 3 + 3 \end{bmatrix}; \qquad H = \begin{bmatrix} 4 & 0 \\ 6 & 2 \end{bmatrix};$$

$$I = \begin{bmatrix} 3 & 3+2 \end{bmatrix}; \qquad J = \begin{bmatrix} 2+2 & 2-2 \\ 2+4 & 2+0 \end{bmatrix}$$

Q.3: Find the value of a, b, c and d which satisfy the matrix equation.

$$\begin{bmatrix} a + c & a + 2b \\ c - 1 & 4d - 6 \end{bmatrix} = \begin{bmatrix} 0 & -7 \\ 3 & 2d \end{bmatrix}$$