Q.1 Write the order of each of the following matrices.(5 Marks)

a) $\begin{bmatrix} 2 & 3 \\ 4 & 5 \end{bmatrix}$

b) $\begin{bmatrix} 1 & 2 & 3 \\ 4 & 8 & 10 \end{bmatrix}$

c) $\begin{bmatrix} 2 & 3 & 7 \end{bmatrix}$

d) $\begin{bmatrix} 4 & 4 \\ 8 & 2 \\ 9 & 1 \end{bmatrix}$

e) $\begin{bmatrix} 15 & 21 & 63 \\ 42 & 5 & 2 \\ 61 & 33 & 55 \end{bmatrix}$

f) $\begin{bmatrix} 101 & 22 & 13 \\ 40 & 80 & 16 \end{bmatrix}$

Q.2 In the matrix A…

$A = \begin{bmatrix} 3 & 5 & 1 & -2 \\ -5 & 1 & 3 & -4 \\ 3 & -2 & -3 & 2 \\ 1 & 8 & 1 & 7 \end{bmatrix}$

Find ….

a) Total Number Of Rows And Columns

b) the order of the matrix A

c) the total number of elements in the matrix A

d) A_{12} , A_{24} , A_{21} , A_{11} , A_{42} , A_{44} (4 Marks)

Q.3 In the matrix A…

$A = \begin{bmatrix} 52 & 15 & 10 & -12 \\ -22 & 10 & 33 & -14 \\ 30 & -22 & -13 & 20 \\ 10 & 18 & 10 & 73 \end{bmatrix}$

Find ….

a) Total Number Of Rows And Columns

b) the order of the matrix A

c) the total number of elements in the matrix A

d) A_{12} , A_{24} , A_{21} , A_{11} , A_{42} , A_{44} (4 Marks)

Q.4 In the matrix A…

$A = \begin{bmatrix} 1 & 2 & 2 & 2 \\ 6 & 3 & 5 & 4 \\ 3 & 2 & 3 & 0 \\ 2 & 1 & 0 & 3 \end{bmatrix}$

Find ….

a) Total Number Of Rows And Columns

b) the order of the matrix A

c) the total number of elements in the matrix A

d) A_{12} , A_{24} , A_{21} , A_{11} , A_{42} , A_{44} (4 Marks)

Q.5 Construct a 2 × 2 matrix whose elements in the i^{th} row and j^{th} column is given by

a) 2i + 5j

b) 3j + 4i (4 Marks)

Q.6 If $A = \begin{bmatrix} 1 & 3 \\ -2 & 4 \end{bmatrix}, B = \begin{bmatrix} 2 & 4 \\ -1 & 3 \end{bmatrix} and\ C = \begin{bmatrix} -1 & 5 \\ 2 & 3 \end{bmatrix}$ then Find

a) B – C

b) A – (B + C)

c) C + (A – B)

d) A + C

e) B – (C + B) (5 Marks)

Q.7 If $A = \begin{bmatrix} 2 & 1 \\ 2 & 3 \end{bmatrix} and\ B = \begin{bmatrix} -2 & 2 \\ 4 & 8 \end{bmatrix}$ then Find

a) (A + B)′

b) (A - B)′

c) (A′ + B)

d) (B′ – A)′ (4 Marks)

Best Of Luck