Current Paper of MTH 501...DATE 11 may 2012 …

MASOOM FAIRY

Total 26 Questions:
20 MCQ'S and 6 Subjective.
All Subjective and MCQ'S are New Not any one from Past papers:
Subjective Questions are there:

Q: 21: If A=B, then determine the Value of x and y, Where $A=\begin{bmatrix}1 & Y+2\\ X+2 & 3\end{bmatrix}$ and $B=\begin{bmatrix}1 & 2\\ 4 & 3\end{bmatrix}$.

MARKS: 2:

Q: 22: Let $A=\begin{bmatrix}1&2&3&4\\2&3&4&5\\2&4&6&8\end{bmatrix}\square\begin{bmatrix}1&0&-1&-2\\0&1&2&3\\0&0&0&0\end{bmatrix}$, Solutions of Ax=0 in term of free Variables are

$x_1 = x_3 + 2x_4$

$x_2 = -2x_3 - 3x_4$

$x_3 = free\ of\ \text{var}iable$

$x_4 = free\ of\ \text{var}iable$

MARKS: 2:

Q: 23: Determine the matrix is block upper triangular, Block lower triangular or Block diagonal.

$$B=\left[\begin{array}{cccc}1&0&0&0\\ \hline 2&3&4&0\\ 2&1&2&0\\ \hline 3&2&0&9\end{array}\right].$$

Q: 24: Determine the Value "s" for which the following system of Linear equation does not has unique solution:

$$Sx_1 + 2x_2 = 10$$
$$5x_1 + 7x_2 = 20 \qquad ;'s' \text{ is parameter}$$

Q: 25: Compute the following by using product rule for

$$(AB)_{23}, (AB)_{13} \text{ and } (AB)_{12};$$

$$A = \begin{bmatrix} 2 & 4 & 6 \\ 1 & 3 & 4 \end{bmatrix} \text{ and } B = \begin{bmatrix} 4 & 2 & 3 \\ 3 & 5 & 8 \\ 2 & 1 & 3 \end{bmatrix}.$$

MARKS: 5:

Q: 26: From Lecture number 22.