5651/KM4/PMAT04 NOVEMBER 2014

NUMERICAL ANALYSIS AND DIFFERENTIAL EQUATIONS

(For those who joined in January 2011 and after)

Time : Three hours Maximum : 100 marks

SECTION A — ($4 \times 10 = 40$ marks)

Answer any FOUR questions.

1. Using Chebyshev method, find the root of the equation $f(x) = \cos x - xe^x = 0$ correct to six decimal places. Take the initial approximation as $x_0 = 1.0$.

2. Solve the system of equations -

$$\begin{bmatrix} 2 & 1 & 1 & -2 \\ 4 & 0 & 2 & 1 \\ 3 & 2 & 2 & 0 \\ 1 & 3 & 2 & -1 \end{bmatrix} \begin{bmatrix} X_1 \\ X_2 \\ X_3 \\ X_4 \end{bmatrix} = \begin{bmatrix} -10 \\ 8 \\ 7 \\ -5 \end{bmatrix}$$

Using the Gauss elimination method with partial pivoting.

3. Calculate the n^{th} divided difference of $\frac{1}{x}$, based on the points $x_0, x_1, x_2, \ldots x_n$.

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Theodore H. Tulchinsky,Elena A. Varavikova

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