

NUMERICAL ANALYSIS AND DIFFERENTIAL  
EQUATIONS

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(For those who joined in January 2011 and after)

Time : Three hours

Maximum : 100 marks

## SECTION A — (4 × 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  $n^{\text{th}}$  divided difference of  $\frac{1}{x}$ , based on the points  $x_0, x_1, x_2, \dots, x_n$ .

# Msc Mathematics Model Question Paper

**JG Myers**



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