

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.Tech I - Semester Examinations, April/May -2012
COMPUTER ORIENTED NUMERICAL METHODS
(STRUCTURAL ENGINEERING)

Time: 3 hours

Max. Marks: 60

Answer any five questions
All questions carry equal marks

1. Solve the following system by Gauss- Jacobi and Gauss – Seidel method:
 $10x - 5y - 2z = 3;$
 $4x - 10y + 3z = -3;$
 $x + 6y + 10z = -3.$

2.a) Apply Gauss-Jordan method to find the solution of the following system:
 $10x + y + z = 12;$
 $2x + 10y + z = 13;$
 $x + y + 5z = 7.$

b) Reduce the matrix to the tridiagonal form by Householder's method

$$\begin{bmatrix} 1 & 3 & 4 \\ 3 & 1 & 2 \\ 4 & 1 & 2 \end{bmatrix}$$

3. Fit the quadratic splines with $M(0)=f''(0)=0$. Hence find an estimate of $f(2.5)$ data as given below.

x	0	1	2	3
f(x)	1	2	33	244

4. Solve the following by means of Euler method
 $y' = x + y, y(0) = 1.0$. Find $y(0.1), y(0.5)$.

5. The following table of values are given for a function $f(x,y)$

y/x	0.1	0.2	0.3
0.1	2.0200	2.0351	2.0403
0.2	2.0351	2.0801	2.1153
0.3	2.0403	2.1153	2.1803

- a) Estimate the values of $\delta f / \delta x$ at (0.2, 0.1) and $\delta f / \delta y$ at (0.2, 0.2) by first order and second order formulas.
- b) Estimate the values of $(\delta^2 f / \delta x \delta y)$ at (0.2, 0.2) using second order formula.

6.a) Explain Richardson's extrapolation method.
b) What is beam deflection? Explain.

7.a) Describe how the definition of double integral can be used to find approximations of double integrals over coordinate rectangles.
b) Explain how Simpson's Rule solves double integrals.

8. Find out the undetermined coefficients a, b and c such that the formula is exact for polynomials as higher order as possible and determine the order of truncation error

$$\int_0^h f(x) dx = h \left\{ a f(0) + b f\left(\frac{h}{5}\right) + c f(h) \right\}$$

Computer Oriented Numerical Methods

Brendan G. Carr



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Computer Oriented Numerical Methods N Datta,2004 This book clearly presents the algorithms required for easy implementation of numerical methods in computer programming The book deals with the important topics of numerical methods including errors in numerical computation in a lucid style Chapter end short questions with answers and appendices with theory questions and C programs are student friendly feature of the book *COMPUTER-ORIENTED NUMERICAL METHODS* P. THANGARAJ,2008-07-22 Numerical methods are powerful problem solving tools Techniques of these methods are capable of handling large systems of equations nonlinearities and complicated geometries in engineering practice which are impossible to be solved analytically Numerical methods can solve the real world problem using the C program given in this book This well written text explores the basic concepts of numerical methods and gives computational algorithms flow charts and programs for solving nonlinear algebraic equations linear equations curve fitting integration differentiation and differential equations The book is intended for students of B E and B Tech as well as for students of B Sc Mathematics and Physics **KEY FEATURES** Gives clear and precise exposition of modern numerical methods Provides mathematical derivation for each method to build the student s understanding of numerical analysis Presents C programs for each method to help students to implement the method in a programming language Includes several solved examples to illustrate the concepts Contains exercises with answers for practice *COMPUTER ORIENTED NUMERICAL METHODS* ,1996

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