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

Time: 3hours   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

$$\int_0^h f(x)\,dx = h\left[a\,f(0) + b\,f\left(\frac{h}{2}\right) + c\,f(h)\right]$$

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Computer Oriented Numerical Methods

Puja Mehta

Computer Oriented Numerical Methods:

The book delves into Computer Oriented Numerical Methods. Computer Oriented Numerical Methods is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Computer Oriented Numerical Methods, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

    - Chapter 1: Introduction to Computer Oriented Numerical Methods
    - Chapter 2: Essential Elements of Computer Oriented Numerical Methods
    - Chapter 3: Computer Oriented Numerical Methods in Everyday Life
    - Chapter 4: Computer Oriented Numerical Methods in Specific Contexts
    - Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Computer Oriented Numerical Methods. The first chapter will explore what Computer Oriented Numerical Methods is, why Computer Oriented Numerical Methods is vital, and how to effectively learn about Computer Oriented Numerical Methods.
3. In chapter 2, this book will delve into the foundational concepts of Computer Oriented Numerical Methods. This chapter will elucidate the essential principles that must be understood to grasp Computer Oriented Numerical Methods in its entirety.
4. In chapter 3, the author will examine the practical applications of Computer Oriented Numerical Methods in daily life. The third chapter will showcase real-world examples of how Computer Oriented Numerical Methods can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Computer Oriented Numerical Methods in specific contexts. This chapter will explore how Computer Oriented Numerical Methods is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Computer Oriented Numerical Methods. The final chapter will summarize the key points that have been discussed throughout the book.
   The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Computer Oriented Numerical Methods.

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