

**FIFTH SEMESTER B.Tech. (ENGINEERING) DEGREE
EXAMINATION, JUNE 2006**

CS 2K 502/TT 2K 506 A—NUMERICAL ANALYSIS AND OPTIMIZATION TECHNIQUES

Time : Three Hours

Maximum : 100 Marks

Answer all the questions.

1. (a) Find a positive root of $x e^x = 2$ by the Regula Falsi method.
(b) Find a polynomial of degree four which takes the values.

x	:	2	4	6	8	10
y	:	0	0	1	0	0

- (c) Evaluate $\int_0^1 \frac{dx}{1+x^2}$, using trapezoidal rule with $h = 0.2$.
(d) Compute $y(0.25)$ using Modified Euler method for $y' = 2xy$, $y(0) = 1$.
(e) Write notes on :

- (i) Basic solution.
(ii) Optimal solution.

- (f) Explain Charnes Big-M-method.
(g) Explain the Vogel's approximation method for solving a transportation problem.
(h) Solve the following 4 job 4 machine problem :

		Machines			
		M_1	M_2	M_3	M_4
Jobs	J_1	5	7	11	6
	J_2	8	5	9	6
	J_3	4	7	10	7
	J_4	10	4	8	3

(8 × 5 = 40 marks)

2. (a) (i) Solve by Crout's method :
 $2x + y + 4z = 12$
 $8x - 3y + 2z = 20$
 $4x + 11y - z = 33$

(7 marks)

- (ii) Using Newton's forward formula, find $\sin(0.1604)$ from the following table :—

x	:	0.16	0.161	0.162
$\sin x$:	0.15931	0.160305	0.161292

(6 marks)

Or

Turn over

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