Mourch-2015

CODE:4315

SEM-V EXAMINATION - MARCH/.

M-504: ADVANCED NUMERICAL METHODS

TIME: 2:30 HOURS		TOTAL
		MARKS:70
	INSTRUCTIONS, (1) All quartions are compulsory	

INSTRUCTIONS: (1) All questions are compulsory. (2) Each question carries equal marks.

Q.1	A B	Discuss : Muller's Method Discuss : Lin-Bairstows Method	[07] [07]
Q.1	A B	Discuss: Ramanujan's Method Apply the quotient difference method to obtain the approximate roots of the Equation $x^3 - x^2 - 2x + 1 = 0$	[07] [07]
Q.2	A B	Discuss: Graeffe's root squaring's Method Using Ramanujan's Method obtain the first six convergent of the equation $x+x^2=1$	[07] [07]
Q.2	A B	Discuss : Horner's Method Discuss : Crout's Method	[07] [07]
Q.3	A B	Discuss: Gauss Elimination's Method Solve $\begin{bmatrix} 1 & 2 & 3 \\ 3 & 2 & 1 \\ 2 & 1 & 3 \end{bmatrix}$ using inverse of crout's method	[07] [07]
Q.3	A B	Discuss : Gauss Jordan's Method Discuss : Jacobi Method of Iteration	[07] [07]
Q.4	A B	Discuss: Relaxation Method Solve by Gauss seidel method the following system of equation 28x+4y-z=32,x+3y+10z=24 and 2x+17y+4z=35	[07] [07]
Q.4	Α	Solve by relaxation method, 9x-y++2z=9 , X+10y-2z=15 and 2x-2y-13z=-17	[07]
	В	Discuss : Gauss seidel Iteration Method	[07]
Q.5	A B	Discuss: Relation between roots and co-efficient Solve equation $x^3 + 6x + 20 = 0$ of which 1-3i is a root.	[07] [07]
Q.5	A B	Discuss transformation of equation Discuss multiples roots.	[07] [07]