Seat No. _____

Enrollment No._____

C. U. SHAH UNIVERSITY

M. Sc. Semester-IVMay-2015 (Summer) Examination Subject Name:Embedded FORTRAN Programming Date: 26/05/2015

Code:5SC04EFP1

Time: 10:30 to 01:30Maximum Marks: 70

Instructions: 1. Attempt all questions.

		Section – I	Marks
Q-1	a)	What is Algorithms?	(01)
	b)	What is flowchart?	(01)
	c)	Which characters are known as integer values in FORTRAN?	(01)
	d)	Write full name of FORTRAN.	(01)
	e)	What is Arithmetic expression in FORTRAN?	(01)
	f)	Draw symbol of input/output statements.	(01)
	g)	What is logical expressions?	(01)
Q-2	a)	Explain features of FORTRAN language.	(05)
	b)	Explain FORTRAN constants.	(05)
	c)	Explain control statements.	(04)
		OR	
Q-2	a)	Explain FORTRAN variables.	(05)
	b)	Explain input/output statements.	(05)
	c)	Explain looping and arrays of FORTRAN.	(04)
		OR	
Q-3	a)	What is simple program in FOTRAN? Explain with its suitable example in flowchart.	(07)
	b)	What is subroutinesin FOTRAN? Explain with its suitable example in flowchart.	(07)
		OR	
Q-3	a)	Write short notes on (1) logical IF statement and (2) go to statement.	(07)
	b)	Explain in detail the DO statement with example.	(07)

Section – II Marks

Q-4	a)	Write equation of linear system.	(01)
	b)	Explain matrices addition with example.	(01)
	c)	Explain matrices multiplication with example.	(01)

	d)	Which technique is used for solving large system?	(01)
	e)	What is pivot element?	(01)
	f)	What is harmonic analysis?	(01)
	g)	Write different types of integration methods.	(01)
Q-5	a)	Explain in detaileigen values and eigen vector of matrix.	(05)
	b)	Explain in detail inverse of matrix.	(05)
	c)	Write short note on determinant.	(04)
		OR	
Q-5	a)	Explain in detail Trapezoidal rule.	(05)
	b)	Explain in detail Simpson's (1/3) rule.	(05)
	c)	Explain pivotal condensation method.	(04)
Q-6	a)	Explain Gauss elimination method with example.	(07)
	b)	Explain Runge-Kutta method with example.	(07)
		OR	
Q-6	a)	Explain differential equations with examples.	(07)
	b)	Explain Euler method with example.	(07)
