02 TRIBHUVAN UNIVERSITY INSTITUTE OF ENGINEERING

Examination Control Division 2073 Chaitra

Exam.	Reg	ular	
Level	BE	Full Marks	80
Programme	All (Except B.Arch.)	Pass Marks	32
Year / Part	I/I	Time	3 hrs.

Subject: - Computer Programming (CT401)

✓ Candidates are required to give their answers in their own words as far as practicable.

√		The	empt <u>All</u> questions. If figures in the margin indicate <u>Full Marks</u> .	
√	1	ASS	rume suitable data if necessary.	
1.			plain the generations of programming language. Distinguish between High level and w level programming language.	[3+3]
2.			nat is an algorithm and how it differs from pseudo-code? Develop algorithm and draw we hart to find the largest of N numbers.	+3+3]
3.	. ;	a)	What are identifiers? List the rules to define valid C identifiers.	[2+3]
	1	b)	What is operator? Describe the conditional operator in C with syntax and example.	[2+3]
4	1	(Aı	nat are the differences between global and local function, variables and data types, & mpersand) operator and * operators used in c-programming language? Explain with ample.	[4+4]
5		a)	Differentiate between pass by value and pass by reference.	[3]
		b)	Explain the significance of user defined functions with example.	[5]
6	•	a)	Write a program to read a string and check whether it consists of Alphabet or not. Use user defined function to accomplish the task.	[5]
		b)	Explain how 2D array is passed to a function. Write a C program to display largest and smallest elements of a 2D array.	[5]
7		dif dat	nat is nested structure? Write a program in C to read name, age and salary of 10 ferent employees as the three members of a structure named as "employee". Sort this a in salary basis using user defined function and display sorted data from main action.	[2+8]
8		Wı	rite a program in C-programming language to compute the cosine series. (hints: $s(x) = 1-x^2/2!+x^4/4!-x^6/6!+$ up to n terms)	[6]
9		dat	rite a program to open file named INVENTORY and store in it for maximum 10000 ta of ITEM_NAME, NUMBER, PRICE, QUANTITY. Extend the program to read this ta from the above given filename and display the inventory table with the value of each m.	
1			Compare unconditional goto and computed goto in FORTRAN with syntax.	[3]
		,	Write a program in FORTRAN to read an array containing N elements, sort this data in ascending order and display the result.	