05 TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING

Examination Control Division Program 2070 Chaitra Year/Pa

Exam.	Re	gular
Level	BÉ	Full Marks 80
 Programme	All (Except B. Arch)	Pass Marks 32
Year / Part	171	Time 3 hrs.

		Subject: - Computer Programming (CT401)	
1 1 1	Candidates are required to give their answers in their own words as far as practicable. Attempt <u>All</u> questions. The figures in the margin indicate <u>Full Marks</u> . Assume suitable data if necessary.		
1.	a)	What do you mean by software and explain about generation of programming languages.	\ [4]
	b)	Define the term "Flowchart". Discuss about different symbols used in Flowchart,	[4]
2.		Find out final value of a, b and c where following expressions are executed sequentially.	[4]
		int $a = 2$, $b = 3$, c ; a = (b++) + (++b) + a; c = a > b? a :; b = (a++) + (b) + a; c = c++*b;	
	b)	What are the difference between formatted and unformatted I/O statements? Describe with proper example.	[4]
3.	a)	Explain importance of break and default statements in switch statements.	[3]
		Write a C program to display following pattern using unformatted output statements:	[7] ÷
		P	
		${ m Pu}$	
		PuL	Atapana J
	in Santari	PULC	
	i egeni	PulcH	
g.h		PULCHO	
		pulcHoW	
		PULCHOWK	
4.	a)	Define "function definition" and write the program to find the sum of two numbers using user-defined functions.	[4]
	b)	What do you mean by "call by value and call by reference" along with suitable example?	[4]
5.	Ca	n we pass whole array element from function? Write a program to display only those	
	stu	dents information which are passed. Use separate function to check the result of dent. The information of students like Name, Roll No, Address and Marks are passed m main functions and pass to functions using array type arguments.	[2+8]

	180	나를 하막다면 하다 하다. 이 시간에 되었다. 나는 사람이 있는 사람들이 Hard Street Hard Hard Hard Hard Hard Hard Hard Hard	[2]
6.	a):	Explain the use of typedef of keyboard in structures.	
	b)	Explain the need of nested structure. Write a C program to convert data.	1+5]/
7.	a)	A pointer variable is used to store address of some other variables, however.	[3]
1.0		to specify datatype winte deciming a property datatype winter related? Give example,	[5]
Łį.	b)	Briefly explain array of pointers. How are array and pointer related? Give example,	[4]
8.	7 2 "	Laboring a file along with suitable examples.	
0.	b)	Write the program to display the records in sorted order sorting is performed in ascending order with respect to name using data files concept.	[4]
	7	ascending order with respect to hame doing a control with suitable example.	[4]
9	a)	Compare arithmetic and logical if statements in FORTRAN with suitable example.	
	b)	Ompare arithmetic and logical if sand m*n matrix, transpose it and display both the Write a FORTRAN program to read m*n matrix, transpose it and display both the	[8]
		matrices.	



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National College Of Engineering (Affiliated to T.U.) Talchhikhel, Lalitpur, Nepal Ph: 5526887. Email: info@nce.edu.np