INSTITUTE OF ENGINEERING

Examination Control Division 2071 Shawan

Exam.	New Back (206	6 & Later Bat	ch)
Level	BE	Full Marks	80
Programme	All (Except B.Arch)	Pass Marks	32
Year / Part	1/1	Time	3 hrs.

Subject: - Computer Programming (CT401)

1	Car	ndidates are required to give their answers in their own words as far as practicable.	100
		empt <u>All</u> questions.	
✓	The	e figures in the margin indicate <u>Full Marks</u> .	
✓	Ass	sume suitable data if necessary.	
1.	a)	Categorise programming languages on the basic of their uses and applications. Among them which programming language is C programming?	[4]
	b)	List and define different steps to solve the problem in computer system.	[4]
2.	a)	Differentiate between declaration and definition. Explain structure of C program with an appropriate example.	[4]
	b)	Write syntax, example and use of following:	[1×4]
		i) pintf()ii) scanf()iii) getche()iv) getch()	
3.		rite the difference between do and do while loop and write the program "to find nether a year is leap or not".	[3+7]
4.		hat is recursive function? How does it work? Find out sum of digit of number until the umber becomes one digit number.[891>18>9].	⊦2+4]
5.	a)	Write a program to read a string and rewrite its characters in alphabetical order.	[4]
	b)	A multinational company has hired 3 sales persons for marketing/selling its 3 different products in Kathmandu. Each sales person sells each of these products. Write a program to read number of each product sold by all sales-persons. Calculate total sells of each item and the total sells of each sales-person. Use arrays.	[6]
6.	a)	Explain about "Arrays within structures" along with programming example.	[4]
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	b)		[4]
7.		rite down advantages of pointer. Write a program using pointer to swap the value of vo variables where the swapping operation is performed in separate function.	[2+6]
<u>.</u> 8,	SC	Vrite a C. program to store employee details in a text file. Read data from the text file, out them in ascending order of salary and store the sorted record to a binary file. Display he details and rank of employee given by the user.	[8]
9	. a)	What do you mean by formatted and unformatted input/output statements in Fortran and also give suitable example which explain the concept of Formatted I/O.	[8]
je Provenske se	16) Write the program to convert a binary number to a decimal number using Fortran programming language.	Г 4 1