## TRIBHUVAN UNIVERSITY INSTITUTE OF ENGINEERING

## **Examination Control Division**

## 2081 Baishakh

Exam.	Reg	ular(New	Course -2080	Batch)
Level	BE		Full Marks	60
Programme	All	(Except BAR)	Pass Marks	24
Year / Part	I/I		Time	3 hrs.

## Subject: - Computer Programming (CT 101)

	***************************************		Jest Togramming (C1 101)	
	<b>✓</b>	Ca At	andidates are required to give their answers in their own words as far as practicable.  tempt All questions.	
	✓	The figures in the margin indicate Full Marks.		
	✓		ssume suitable data if necessary.	
	1.	. Define programming language. Draw a flowchart to find the factorial of a positive integer.		
	2.	W	hat are Preprocessor directives in C? What are the basic rules of identifier naming in C?	[1+3 [2+2
	3.	De	efine the shorthand operator in C. Explain the correct order of precedence of arithmetic erators in C.	_
	4.	Ex	eplain different components of the control string in C.	[3
	5,		Differentiate between break and continue in loop. Write a program in C to display the n <sup>th</sup> term of the Fibonacci series. [Hint: the n <sup>th</sup> term is a sum of the previous two numbers, where the first two terms are always 0 and 1.]	-
		b)	Display the following pattern using the concept of nested loop in C.	[3
			5 54 543 5432	
			54321	
	6.	a)	What is an array index? Write a program to read values of 1D array and check whether the largest element is even or odd.	[1+4]
		b)	Write a program to concatenate two strings without using string handling function.	[4]
		c)	Write a program to read 5 numbers in an array and then use the concept of pointer to display the array elements.	[3]
1	7.	a)	Write a program in C to reverse a number entered by user using the concept of function with return type and arguments.	[4]
		b)	Define register storage class in C. Find the HCF of 2 numbers using Recursion in C [Hint: HCF is a number that divides both the numbers exactly].	[1+4]
}	3.	Inp	ite a C program to create a structure named BOOK with its members Name and Price, but 10 records of book. Create a function named maxPrice() which displays the record h maximum price. The entire structure to the function is passed from main.	[6]
9		stri	nat is the purpose of 'w' and 'a' mode in text file? Write a program in C that creates a acture named VEHICLE with its member year, brandName. Read 'n' number of nicle information and write it to a file named vehicle.dat.	[1+4]
1	0.	Wł kev	nat are the short comings of procedure-oriented programming language? Explain the	[1 : 0]

[1+3]

key features of Object-Oriented Programming Language.