B.E.(with Credits)-Regular-Semester 2012-Information Technology Sem III

IT 302 - Advanced C Programming and Logic Design

_		GUG/W/16/3769 Max. Marks : 80
Note	1 1	sketches.
a)	Explain what is logic? Write a C program to check number entered is pali:	ndrome or not? 8
b)	Explain different data types in C? Write a C program to check number ent not?	tered is prime or 8
	OR	
a)	Explain what is pseudocode? Write a pseudocode to solve the roots of qua	adratic equation? 8
b)	What is armstrong number? Write a C program to check number entered i not? Show your mathematical calculation?	s armstrong or 8
a)	What is menu driven programming? Write a C program to design the followard of the control of the	owing menu. 10
b)	Explain ternary operators along with a suitable line of code?	6
	OR	
a)	Explain nested for loop? Write a C program to find the prime factorials of	a number? 8
b)	Write a C program to produce following output?	8
	i) * ii) 1 2 4 3 6 9 4 8 12 16	
a)	Explain call by value and call by reference?	8
b)	Modularize a C program to calculate sum of a sine series.	8
	OR	
a)	Explain what is pointer? Prove how we can return a two value at a time us	sing pointer?
b)	Find GCD of two numbers using function? Explain euclids algorithm.	8
	e: Thr Note: a) b) a) b) a) b) a) b)	2. Illustrate your answers wherever necessary with the help of neat: 3. Due credit will be given to neatness and adequate dimensions. 4. Assume suitable data wherever necessary. a) Explain what is logic? Write a C program to check number entered is palin b) Explain different data types in C? Write a C program to check number entered in not? OR a) Explain what is pseudocode? Write a pseudocode to solve the roots of quark b) What is armstrong number? Write a C program to check number entered in not? Show your mathematical calculation? a) What is menu driven programming? Write a C program to design the following in the spring of the program to give a C program to design the following in the series. OR a) Explain ternary operators along with a suitable line of code? OR b) Write a C program to produce following output? i) *

7.	a)	write a C program to find transpose of a matrix?	δ
	b)	Write a C program to sort an array using bubble sort?	8
		OR	
8.	a)	Write a C code to search an element in an array by using binary search?	8
	b)	Write a C function to modify an array elements by multiplying them by 3?	8
9.	a)	Write a C program to concatenate two files use command line arguments?	8
	b)	What is array of structure? Write a C program to display information of 30 employees?	8
		OR	
10.	a)	Write a program to store every character typed at keyboard into a file. The process should come to an end as soon as ~ character is bit from k/b?	8
	b)	Write a program in C to copy out following. i) Read a text file 'INPUT. TXT'.	8
		ii) Print each word in reverse order.	
