Seat No. ___

GANPAT UNIVERSITY B. Tech SEM-I (CE/IT/EC/BM&I) Regular Examination Nov/Dec-2011 108: Computer Programming

Time: 3 Hours] [Total Marks: 70

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- 1. Figures to the right indicate full marks
- 2. Each section should be written in a separate answer book
- 3. Be precise and to the point in your answer

SECTION-I

01	(0)	Explain the basic structure of C program.	[4]
Q-1.			[4]
	(b)	Write a program which finds whether the entered number is odd or even. Display an apprópriate message if entered number is zero.	[4]
	(c)	What is type casting? Explain it with example.	[4]
		[OR]	
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Q-1.	(a)	List various character test functions and explain any four with the help of programs.	[4]
	(b)	Describe "switch statement" with the help of a program for it.	[4]
	(c)	Explain the difference between getch(),getche(),getchar(),getc() and scanf("%c",) with the help of programs.	[4]
Q-2.		Answer the following:	
	(a)	Explain in detail "multiple variable for loop" and "nested for loop" with the help of	[6]
		a program for each.	
	(b)	Show declaration and initialization of any one, two and three-dimensional array and state meaning of each part in declaration of them.	[5]
		[OR]	
Q-2.	(a)	Describe various methods to initialize string and specify difference between them using program.	[6]
	(b)	Explain "simple for loop" and meaning of each section in it. Also specify a sample	[5]
		program to represent its functionality.	
Q-3		Answer the following: (Any Three)	[12]
	(a)	List various logical operators with example for each.	
	(b)	List various types of constant with examples for each.	
	(c)	Write a program to find factorial of any integer using (a)dowhile loop	
7	(d)	Write a program which checks whether the entered number is palindrome or not.	

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SECTION-II

Q-4.	(a)	Write a prog to copy one string to another.	[4]
	(b)	Explain "simple if", "if else" and "else if ladder" with the help of a program for each.	[4]
	(c)	Define: Precedence and Associativity.	141
		[OR]	
Q-4.	(a)	Explain various methods to scan string using sample program for each. State the difference between each method.	[4]
	(b)	Differentiate between "while" and "do while" with the help of a program.	[4]
	(c)	Write a program to check whether a year given by the user is a leap year or not.	[4]
Q-5.	(a)	Write a program which counts and prints all odd elements of an int array.	[6]
	(b)	Write a program to perform the matrix multiplication for two 3*3 matrixes and then find the maximum element from the resultant matrix. [OR]	[5]
Q-5.	(a)	Write a C program to print the following output. 1 0 1 1 0 1 0 1 0 1	[6]
	(b)	1 0 1 0 1 Explain the process of compiling and running a C Program.	[5]
Q-	6.	Answer the following: (Any Three)	[12]
	(a)	Write a C program to generate Fibonacci series.(e.g. 1 1 2 3 5 8 13)	
	(b)	Write a Program which scans three integer numbers and then find which one is greater.	
	(c)	List out the category of the function. Explain any two categories with example.	
	(d)	Write a C program to cut a portion of a string. Take input for string and both positions for cutting. (e.g. string is "palindrome", cut this string from 4-7, then resultant string will be "palome")	
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