Seat no:

GANPAT UNIVERSITY BACHELOR OF TECHNOLOGY Sem. 1 December -2013 Examination 2CE101: COMPUTER PROGRAMMING

Time: 3 Hours]

[Total Marks: 70

Instructions:

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

Q-1	Answer the following:	
(a)	What is Variable? Give the rules for defining variables?	[4]
(b)	List out the different types of operators used in 'C' and explain Relational Operator with	[4]
	example	
(c)	Write a 'C' program to count ODD and EVEN numbers from given 10 numbers.	[4]
	OR	
Q-1	Answer the following:	
(a)	Explain in detail: Basic structure of a C program.	[4]
(b)	Write a program to display following pattern using nested for loops.	[4]

	* *	
	* Using , Conditional contator (2.1).	
(c)	Solve it: $X = (a + (d * e) - (c / b) + 4 * 2 / 4)$. Where a=2, b=2, c=6, d=1, e=3.	[4]
	A second s	
Q-2	Answer the following:	
(a)	Write a C program to find whether entered string is palindrome or not.	[4]
(b)	Write a C program to find whether the entered number is armstrong or not.	[4]
(c)	Explain forward and backward jump with the help of example.	[3]
	OR	
Q-2	Answer the following:	141
(a)	Give the difference between following terms.	[4]
	(1) while and do-while	[4]
(b)	Give the difference between following terms.	[**]
	(1) break and continue	
	(2) break and goto Write a program to display all the even numbers between 100 to 500 using for loop.	[3]
(C)	write a program to display an the even humbers between 100 to 500 using for 100p.	1-1
02	Answer the following:	
Q-3 (a)		[4]
(a) (b)		[4]
(c)		[4]

Section II

Q-4	Answer the following:	
(a) (b)	Discuss 2-Dimentional Array with example	[6]
(0)	Define String. Discuss any two string functions with its syntax.	[6]
Q-4	Answer the following:	
(a)	Write a program to display the length of a given string without using strlen () function.	[6]
(b)	Explain with the help of programs:	[6]
	I. Function with no arguments and no return value	
	II. Function with arguments but no return value	
	III. Function with return value but no arguments	
	IV. Function with arguments and return value	
Q-5	Answer the following;	
(a)	Explain #define Statement with help of program.	[4]
(b)	Discuss typedef with the help of program.	[4]
(c)	Write a program to calculate simple interest,	[3]
	Hint: interest = (principle_amount * rate * year)/100	
Q-5	OR pointed of the fallenting	
(a)	Answer the following: Write short notes on following:	LAT
(4)	(i) Nested if.else statement.	[4]
(b)	Explain the storage class specifiers in C.	[4]
(c)	List various logical operators with example for each.	[3]
Q-6	Answer any Six of the following:	
(a)	Write a program, which scans two integer numbers and then finds which one is greater	[2]
(b)	Using, Conditional operator (? :).	
(0)	What is a size of this Structure, struct account {	[2]
	int account number,	
	char *first_name;	
	char *last_name;	
	float balance;	
	};	
(c)	Write a function line () to print a line. (80 hyphens (-)).	[2]
(d)	Differentiate between compiler and interpreter	[2]
(e)	Write a C program to illustrate how to read string from terminal.	[2]
(f) (g)	Explain advantages of the use of the function. Give the output of the following code. Give the explanation for the output.	[2]
(5)	int i:	[2]
4	for(i=5;i<15;i++) {	
4	printf("%d\n",i);	
	i=i-1;	
	the Frederic Switch Statement with exercicle (O	

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