CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY

First Semester of B. Tech. Examination (CE/IT/EC)

May 2014

CE103 Computer Concepts & Programming

Date: 27.0	05.2014, Tuesday	Time: 01:30 p.m. To 04	:30 p.m.	Maximum Marks	: 70
Instruction	uestion paper comprises o	of two sections. ted in separate answer shee draw neat figures whereve	ets. er required.		
		SECTION - I			1061
Q – 1 (a)	2. Design a flow chart: 1	calculation: (BAD) ₁₆ = (? Find maximum between th	e two integers.		[06]
		is used to skip part of	the statements in a	100p and	
	statement is used to j	ump out of the loop.			10.41
(b)	What is the correct out	put of the following code:	?		[04]
	<pre>(1) #define X (a*(b void main() int a=2, b=3 c = 5 + X % printf("%d", }</pre>	3, c=4; 2;	<pre>void main()(int i=1,j=0; switch(i) (case 0,; case 2: default } printf("%d"</pre>	i: j=1; j=2; ; j=0;	
0 2(0)	Compare the following t	pairs of statements: 1) wh	ile and for 2) bre	rak and goto	[04]
(h)	Draw and explain the ba	sic structure of a C progra	m in detail.	man W	[05]
	(b) Draw and explain the basic structure of a C program in detail.(c) Explain the following functions of string.h file with example:				
(c)		etrcpy(s1,s2) 3) strcmp(
O - 2 (a)	What the term Nesting r	efers to? Explain nested if	else with example.		[04]
(b)	(b) List out all categories of operators and explain any two of them.				[05]
(c)	Explain the follwoing cl	haracter testing functions v isdigit(c) 3) tolower(c)	vith example:	15 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	[06]
Q-3		4,5,6,7,8,9 }; What will be		nent c[1][1]?	[02]
Q-5	2 Write a C program t	o check given integer is ne	gative, positive or ze	ro.	[04]
	Write a user-define between 1 and 100.	ed function sum_of_even	() that prints sum	of even numbers	[04]
		OR	it a value of the pla	ment cf012	[02
Q-35	1. char c[15] = {"IND	IA ROCKS"}; What will b	haracter is yourd or	not	[04
	3 Define a structure	to check whether entered c called TimeStruct having program that would assign the form 10:40:30.	3 members called	Hour, Minute and	[04
	MALINE STATE STATES			Pag	e 1 of

SECTION - II

Q - 4 (a)	9				
	Syntax error and Logical errors are same.				
	String variables cannot be used with assignment operator.				
	3. A function statement without a return				
		to integers, then p2-p1 is invalid statement.			
	5. The first element of array arr is refe	rred to as arr[0].			
(b)	Do as directed.	1 / 11 / 12			
	Input to a compiler file is called	. [byte code / source code / object code]	[01]		
	2. Match the following:		[02]		
	A	B	100		
		ets a character from stream			
		ets a string from standard input device			
		ets an integer from stream			
	4. char *gets(char *s); 4. G	ets a character from standard input device			
	3. Classify valid and invalid variable nan	ne in C.	2220		
		m@n (iii) 9nitaal	[03]		
	** 1,570.5				
	(iv) Row1 (v) bas	sic salary (vi) Maximum			
Q - 5 (a)	What is pointer? What is the scale factor of a pointer?				
(b)	Differentiate with suitable example: Structure vs Union.				
(c)	List out categories of function and explain any two with examples.				
		OR			
Q-5(a)	Differentiate with suitable example: Array vs Structure				
(b)	Explain call by value and call by reference with example.				
(c)	Discuss about local variable and global variable in detail.				
Q-6					
~ ~		tch-case to calculate and print total fare, where	[05]		
UNL."	number of passengers and initial letter				
	Enter 'D' for Delhi – 1000 Rs	Enter 'K' for Kolkata - 1400 Rs			
	Enter 'M' for Mumbai - 600 Rs	Enter 'C' for Cochin - 1700 Rs			
	Enter 'B' for Bengaluru - 1600 Rs	No direct train available in rest of the case.			
	Effet B for Bengalulu – 1000 KS	No direct train available in test of the case.			
	Write a C program to read marks of 5 subjects out of 100 and find and print total marks and percentage obtained.				
	THE PARTY OF THE P	OR			
Q - 6					
		rices, if A and B both are 3*3 matrices, then	[05] [05]		
	resultant matrix $C=A+B$ where $C_{ij}=A$		[20]		