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R. V. COLLEGE OF ENGINEERING
Autonomous Institution affiliated to VTU
III Semester B. E. Examinations Nov/Dec-18
Common to CS / IS / EE / EC / EI / TE
BRIDGE COURSE C PROGRAMMING

Time: 03 Hours**Maximum Marks: 100****Instructions to candidates:**

1. Answer all questions from Part A. Part A questions should be answered in first three pages of the answer book only.
2. Answer FIVE full questions from Part B. In Part B question number 2, 7 and 8 are compulsory. Answer any one full question from 3 and 4 & one full question from 5 and 6

PART-A

1	1.1	The format identifier '%i' is also used for _____ data type.	01
	1.2	List all the symbols used for flow chart.	02
	1.3	Write an algorithm to find largest of two numbers.	02
	1.4	Evaluate the following expression given $int\ a = 3, b = 4;$ $c = a/b * (a++ - b) + 8;$	02
	1.5	What is precedence and associativity?	02
	1.6	What is the output of the following? <pre>if(1.5) { if(0) { printf("Hi"); } } else { printf("Hello"); } printf("RVCE");</pre>	02
	1.7	What is the size of array a ? $char\ a[] = \{'1', '2', '3', '4'\};$	02
	1.8	Switch statement accepts long data type. True/False.	01
	1.9	What is the value of x ? $x = strcmp("Rvce", "rvce");$	02
	1.10	Give the syntax and example of a function prototype.	02
	1.11	Create a structure called student with attributes Sname, USN, address, mobile, program.	02

PART-B

2	a	Write an algorithm and flow chart to find the odd numbers between 5 to 50.	08
	b	A group of 1200 persons consisting of captains and soldiers are travelling in a train. For every 15 soldiers there is one captain. Find the number of captains in the group.	04
	c	Write the structure of a C program with an example.	04
3	a	Differentiate between formatted and unformatted input statements.	04
	b	Explain different data types used in C program with an example for each.	08
	c	Evaluate the following: i) <code>int a = 3, b = 4;</code> <code>b = ++a + a;</code> <code>printf("%d", b);</code> ii) <code>int a = 13, i, j, m;</code> <code>i = ++a;</code> <code>j = a++;</code> <code>m = a + i++;</code> <code>printf("%d%d%d", i, j, m);</code>	04
OR			
4	a	Write a C program to compute sum of 'n' numbers which are divisible by 5.	08
	b	Explain type conversion with examples.	08
5	a	Discuss any five string handling functions with suitable examples.	08
	b	Write a C program to perform linear search on set of floating point numbers.	08
OR			
6	a	Write a program to find transpose of a matrix.	08
	b	With code snippets, explain initialization of 1D and 2D array.	08
7	a	With a suitable example, list the difference between arrays and structure.	06
	b	With an example, explain the difference between call by value and call by reference.	06
	c	Write a 'C' program to find factorial of a number using function.	04
8	a	Define pointer. With code snippet, explain how the pointer variables are declared and initialized.	08
	b	Explain file handling functions <i>fopen()</i> , <i>fscanf()</i> , <i>fseek()</i> , <i>fclose()</i> .	08