BMS College of Engineering, Bangalore-560019

(Autonomous Institute, Affiliated to VTU, Belgaum)

July / August 2017 Supplementary Semester Examinations

Course: C PROGRAMMING

Course Code: 14CS1ICCCP / 14CS2ICCCP

Date: 29.07.2017

Instructions: 1. Answer any five full questions choosing one from each unit.

2. Assume missing data (if any) suitably.

UNIT 1

1.	a)	Develop a program for finding the largest of three numbers without using branching statements.	06
	b)	Illustrate the different types of constants available in C language with examples.	07
	c)	Evaluate the given expression	07
		i) 10+2>6&&2 !7&&11-2<=5	
		ii) $a+=b=c*10$ given $a=7,b=7,c=7$	
		UNIT 2	
2.	a)	Explain different conditional branching statements with examples.	12
	b)	Develop a program to check whether entered number is prime or not	04
	c)	Write a program to display the sum of digits of a number entered by the user.	04
		OR	
3.	a)	Develop a program that accepts a number from 1 to 10. Print whether the number is even or odd without using iterative statement.	06
	b)	Develop a program to print the following pattern	06
		1	
		2 2	
		3 3 3 and so on up to the number of lines input by the user.	
	c)	List the difference between break and continue statements.	08
		UNIT 3	
4.	a)	Explain the different ways of passing parameters to functions.	08
	b)	Develop a code to perform multiplication of two matrices of order mXn	09
	c)	Explain the initialization of one dimensional array with an example.	03
		UNIT 4	
5.	a)	Define String. Develop a program to convert characters of an input string into uppercase if lower and vice versa. Give sample outputs.	10
	b)	Illustrate self-referential structure with example.	04
	c)	Define structure. How do you declare a structure and initialize structure?	06
	ŕ	OR	
6.	a)	Explain nested structures with an example.	10
	b)	Develop a C program to perform concatenation of two strings.	06
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	c)	Write the output for the following program	04
		#include <stdio.h></stdio.h>	
		int main()	
		{	
		char s[]="Hello, BMSCE";	
		printf(">>%s<<\n",s);	
		printf(">>%20s<<\n",s);	
		printf(">>%-20s<<\n",s);	
		printf(">>%.4s<<\n",s);	
		return 0;	
		}	
		UNIT 5	
7.	a)	Define a pointer? Develop a program to find the sum and mean of all elements in an array using pointers.	10
	b)	Illustrate different input and output operations in files.	06
	c)	Explain the general syntax of malloc function and give its usage *******	04