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BMS College of Engineering, Bangalore-560019

(Autonomous Institute, Affiliated to VTU, Belgaum)

December 2016 Semester End Main Examinations

Duration: 3 hrs Course: C PROGRAMMING Course Code: 14CS1ICCCP Max Marks: 100 Date: 23.12.2016 Instructions: 1. Answer any five full questions choosing one from each unit. 2. Assume missing data (if any) suitably. UNIT 1 Define variable? Explain the rules for constructing a variable. 1. 06 a) Explain any four operators in C language with an example for each. 08 Mention the different data types supported by C language, giving an example for 06 c) each. UNIT 2 2. 08 Explain while and do-while loop with example. Develop a program to input 3 numbers and find the largest of them using && 06 operator. Show how break and continue statements are used in a C program, with an c) 06 example. OR 3. Outline if, if-else and cascaded if-else conditional statements with example. 06 Explain the syntax of switch statement. Demonstrate the use of switch statement to 08 b) develop a simple calculator. Implement a program to print the following pattern 06 c) 1 121 12321 1234321 123454321 UNIT 3 Illustrate the parameter passing mechanisms in C? 4. **06** a) Develop a program to find the second biggest number using an array of n numbers. **06** b) Develop a program to multiply two mxn matrices. **08** c) UNIT 4 Explain different methods for reading and writing of strings. 5. 06 Develop a program to perform the concatenation of two strings without using library 06 function.

c)

6.	a)	Develop a program to find the length of a string.	04
	b)	Develop a program to convert lowercase to uppercase and vice versa.	06
	c)	Explain appending of two strings and develop a program to perform the same.	06
	d)	Describe self-referential structures.	04
		UNIT 5	
7.	a)	Define a pointer? Explain declaration of pointer with an example	04
	b)	Write a function using pointers	06
		to exchange the values stored in two locations in memory.	
	c)	Describe the usage of MALLOC.	05
	d)	Explain getc() and putc() function.	05
