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RV COLLEGE OF ENGINEERING®
 (An Autonomous Institution affiliated to VTU)
 IV Semester B. E. Examinations Nov-2022
BRIDGE COURSE: C-PROGRAMMING

*Time: 02 Hours**Maximum Marks: 50**Instructions to candidates:*

1. Answer five FULL questions.
2. Question number 1, 6 and 7 are compulsory. Answer any one full question from 2 and 3 & one full question from 4 and 5.

PART A

1	a	Draw a flowchart to add two numbers entered by the user.	03
	b	Explain the different features offered by the c programming language?	03
	c	Explain the different data types and format specifiers in C programming language.	04
2	a	Develop a C program to print a block F using hash (#), where the F has a height of six characters and width of five and four characters. And also to print a big 'C'. <i>Expected Output:</i> ##### # # ##### # # # ##### ## ## # # # # # ## ## #####	05
	b	Explain in detail about "The unformatted input functions" in C programming language with sample code snippet.	05
OR			
3		Explain in details about "Operators are used to perform operations on variables and values" in C programming language with sample code snippet.	10

4 a	Describe in details about the different types of decision making statements used in C programming language.	06
b	Develop a C program to read the age of a candidate and determine whether he / she is eligible for casting his/her own vote.	04
OR		
5 a	Explain in details about types of loops to handle looping requirements in C programming language.	06
b	Write a program in C to display the multiplication table of a given integer Test data: Input the number (Table to be calculated) : 15 <i>Expected Output:</i> 15X1 = 15 15X10 = 150	04
6	Explain in detail about the following with sample C programming language code snippet.	
1. Array declaration 2. Array initialization 3. Different ways to access array elements.		10
7 a	Write the differences between call by value and call by reference in C programming language with example code.	05
b	What is the usage of the pointer in C and also write a C program to swap two numbers without using the 3 rd variable using pointers?	05