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**RV COLLEGE OF ENGINEERING®**  
 (An Autonomous Institution affiliated to VTU)  
**IV Semester B. E. Supplementary Examinations Oct/Nov-2022**  
**COMMON TO ALL**  
**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	"C" is _____ programming language.	01
	1.2	_____ operator has three operands in the C instruction.	01
	1.3	_____ is called the brain of the computer.	01
	1.4	The execution of C program starts from _____	01
	1.5	List few input devices	02
	1.6	State the different steps for executing a "C" program	02
	1.7	What are the rules to be followed for naming a variable in "C"?	02
	1.8	What is the difference between 'do-while' and 'while' looping statements in "C"?	02
	1.9	Write a "C" code snippet to find whether a given number is odd or even	02
	1.10	Write a function prototype that takes two integer parameters and return a floating point value.	02
	1.11	What is the advantage of using pointers in "C" ?	02
	1.12	How do you define structure in "C".	02

**PART-B**

2	a	Draw a flowchart to find bigger of three numbers.	04
	b	Explain the basic structure of C program.	06
	c	Explain the different data types and format specifiers available in C programming language	06
3	a	Explain various arithmetic and logical operators supported in C with example	08
	b	Describe the various decision making statements supported in C with example.	08
<b>OR</b>			

4	a	Write a C program to find the sum of first 10 numbers.	08
	b	Write a program to read a person's age and find whether he is eligible to vote or not	08
5	a	Explain in detail about the following with sample C code snippet. 1.Array declaration 2.Array initialization 3. Different ways to access array elements.	08
	b	Write a C program to search for a given key element in an array of numbers using linear search	08
<b>OR</b>			
6	a	Explain different string handling functions supported in C with example.	08
	b	Write a C program to read and print the minimum and maximum of n numbers using arrays	08
7	a	Write a note on how parameters can be passed to user defined functions with example	08
	b	Explain the difference between structure and unions in C using examples	08
8	a	Write a short note on pointers and write a C program to swap two numbers using pointers	08
	b	What are files in C? Briefly explain the input and output operations on files with example	08