Printed Page	e 1 of 1							Sub Code:RCAI101							
Paper Id:	206101	Roll No:													
MCA (INT) (SEM I) THEORY EXAMINATION 2019-20															
		PROGRAMMI	NG I	N C											
Time: 3 Hours							7	Total Marks: 70							

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SECTION

1. Attemphhuestionbrief.

 $2 \times 7 = 14$

- a. What will be the output of the following code for(i=1; i<10;i++); printf("%d", i);
- b. What is the use of flow chart?
- c. What do you mean by system software and application software?
- d. What is the task of a loader?
- e. What do you mean by formal parameters?
- f. If a = 14 and b = 3, what is the result of a/b in C language?
- g. Declare and initialize a 2 dimensional array during compile time.

SECTION B

2. Attempt any three of the following:

 $7 \times 3 = 21$

- a. How do-while loop is different from while loop? Give the syntax and working of both the loops.
- b. What are the disadvantages of 1st generation computers?
- c. Draw a flow chart to find the sum of 1 to N.
- d. Write a function to find factorial of a number.
- e. Write a program in C to search a number in a given array of numbers.

SECTION C

3. Attempt any *one* part of the following:

 $7 \times 1 = 7$

- (a) Write a program in c to count the number of characters in a string.
- (b) What do you mean by type casting? Illustrate implicit type casting and explicit type casting with suitable example.
- 4. Attempt any one part of the following:

 $7 \times 1 = 7$

- (a) Define algorithm. What are the attributes of a good algorithm?
- (b) Write a program in C to print the pattern

ABC ABCD ABCDE

5. Attempt any one part of the following:

 $7 \times 1 = 7$

- (a) "A variable is declared as static". Illustrate with example the behavior of the variable.
- (b) Write a program in C to print the transpose of a matrix.

6. Attempt any *one* part of the following:

 $7 \times 1 = 7$

- (a) Differentiate between compiler and interpreter.
- (b) What do you mean by precedence and associativity of operators? Explain with a suitable example.

7. Attempt any *one* part of the following:

 $7 \times 1 = 7$

- (a) Write a function to check an input number is prime or not. The function should return a value of 1 if the number is prime otherwise it should return 0.
- (b) Write the syntax of switch statement and explain its working. Illustrate with a suitable example.