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Roll No.

Total No. of Questions: 07]

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BCA (Sem.-1st)

PROGRAMMING IN C

SUBJECT CODE: BC - 104 (N2)

<u>Paper ID</u>: [B0204]

[Note: Please fill subject code and paper ID on OMR]

Time: 03 Hours

Maximum Marks: 60

Instruction to Candidates:

- 1) Section A is Compulsory.
- 2) Attempt any Four questions from Section B.

Section - A

Q1)

 $(10 \times 2 = 20)$

- a) What do you understand by programming paradigm? Name various programming paradigm.
- b) Differentiate between strlen() and sizeof() with suitable examples.
- c) Write any two advantages of pointers?
- d) What is typedef declaration? Give suitable example.
- e) What are the three constructs that govern statement flow?
- f) Give the function of size of operator?
- g) What does the file iostream.h consists of?
- h) How to open or close a file?
- i) How is a static variable different from a static function?
- j) Identify the error in the following C statement.

for
$$(i = 0; i < = 8; ++i)$$

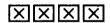
$$x[i] = i;$$

Will the error be defected? If so when?

Section - B

 $(4 \times 10 = 40)$

- Q2) (a) Explain basic data types available in C with the help of example.
 - (b) Write a function in C to find the sum of the following series : $1 + 2 + 3 + 4 + 5 + 6 + 7 + \dots$ up to n terms.
- (a) Compare all the three loops available in C.
 - (b) Explain the various character input/output functions with the help of suitable examples.
- **Q4)** (a) Write a program in C to sort in ascending order integer elements of one dimensional array.
 - (b) Differentiate between pass by value and pass by reference with the help of example.
- **Q5)** (a) Write a program to concatenate two strings.
 - (b) Explain the concept of passing array to functions.
- **Q6)** (a) Explain the relationship of one dimensional array with pointers.
 - (b) Write a program in C to bubble sort the given 10 numbers.
- Q7) (a) Write a program using C to compute transpose of a matrix.
 - (b) What is a class? How the objects are created? Explain with help of examples.



J-329