

Total No. of printed pages = 2

**CAP052101**

Roll No. of candidate

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**2017**

**End Semester BCA Examination**

**1<sup>st</sup> Semester**

**INTRODUCTION TO C PROGRAMMING**

Full Marks- 70

Time- 3 hours

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The figures in the margin indicate full marks.

**PART – A**

**Q.1. Answer all questions:**

**16 x 1 = 16**

- a) What is a flow Chart?
- b) C language has been developed by\_\_\_\_\_.
- c) What is a keyword?
- d) What is an algorithm?
- e) How is decision making done using *if statement*.
- f) Write the syntax of *for loop*.
- g) Why are goto statements used?
- h) State the importance of looping.
- i) What is an array?
- j) What is a function?
- k) What is a string?
- l) How to declare a function?

- m) What is a structure?
- n) What do you mean by a pointer?
- o) What is a file?
- p) How to open and close a file?

## **PART – B**

**Q.2. Answer all questions:**

**4 x 3.5 = 14**

- a) What is a variable? How are they declared? Mention the rules for constructing variable names.
- b) Write a program to find largest of 3 numbers.
- c) Write a program to find the length of a string.
- d) What are the advantages of using a function?

## **PART – C**

**Q.3.** Explain the increment and decrement operator with suitable example. (10 marks)

OR

Explain the structure of a C program.

**Q.4.** Differentiate between the while and the do while loop with the help of an example. (10 marks)

OR

Explain the switch case with an example.

**Q.5.** Write a program to perform addition of two matrices. (10 marks)

OR

What are the advantages of using an array? Write a C program to display an array of elements

**Q.6.** Explain the concept of call by value and call by reference with the help of an example. (10 marks)

OR

Explain the use of Structure with the help of an example.