## CA101

Attempt any **Two** of the following questions:

 $6 \times 2 = 12$ 

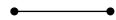
- (a) Explain advantages and various classification of Functions.
- (b) What are the advantages of using Pointers? Explain with suitable example.
- (c) Explain the concept of dynamic memory allocation. What are the built in functions for dynamic memory allocations?
- Attempt any **Two** of the following questions:

 $6 \times 2 = 12$ 

- (a) Explain various types of Arrays. How arrays are declared? Explain with example.
- (b) Explain various most commonly performed operations over String.
- (c) (i) Write a program to find the largest element in an array using a function.
  - (ii) Write a program to print transpose of a matrix.
- 5. Attempt any **Two** of the following questions:

 $6 \times 2 = 12$ 

- (a) Explain the need for the concept of structure. Write a program to create a list of book's details. The details of a book include title, author, publisher, publishing year, number of pages and price.
- (b) (i) What are the significance of enumerated data types and type def? Give an example of each.
  - (ii) Differentiate between Macros and C-preprocessor.
- (c) What are the operations performed over files? Explain various file I/O operations with suitable example.



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CA101

Roll No.					

## B.C.A.

## **FIRST SEMESTER EXAMINATION, 2017-18** PROGRAMMING IN C

Time: 3 Hours Max. Marks: 60

Note: (i) Attempt ALL questions.

(ii) Choices are given in each question set.

Attempt any **Four** of the following questions:

 $3 \times 4 = 12$ 

- (a) What are the salient features of C language?
- **(b)** What are local and global variables?
- (c) What are the different types of errors? Give examples.
- (d) Discuss Keywords, identifiers, variable and constant with examples.
- (e) Write the syntax of using getchar() and putchar().
- Discuss the significance of formatting of outputs.
- 2. Attempt any **Four** of the following questions:

 $3 \times 4 = 12$ 

- (a) "C" is rich in operators. Justify.
- (b) Write a program to find greatest among three numbers using conditional operator.
- **(c)** Write a program to find whether a year is a leap year or not.
- (d) Differentiate between selection and looping.
- (e) Difference between break and continue statement.
- (f) How do you construct a loop with the help of if and goto statements?