



# AJEENKYA

## D Y PATIL UNIVERSITY

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### End Term Examinations (December 2018)

**School:** School of Information Technology

**Program:** BCA

**Course:** Introduction to C Programming

**Course Code:** CSC113

**Semester:** I

**Marks:** 50

**Duration (mins):** 90

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#### Section A

**Q1. Answer the following. (Any Five)**

**10 Marks**

- What are primary data types and derived data types?
- Define algorithm and list its properties.
- What is formal and actual parameters?
- Define Array. Write the operations performed on an array.
- What do you mean by decision making control statements?
- Define pointer with example.
- List out the operations performed on file.

#### Section B

**Q2. Answer the following (Any Four)**

**20 Marks**

- Compare malloc and calloc function.
- Explain types of functions with the help of C program.
- Describe Interpreter and Compiler.
- Define local and global variables. Write a program to illustrate it.
- Differentiate between structures and union.
- Define recursion and write a program to find factorial of a number using recursion.

### Section C

**Q3. Answer the following (Any Two)**

**20 Marks**

- a) Explain call by value and call by reference with the help of example.
- b) Write a menu driven program to perform any four arithmetic operations  
For e.g. (+, -, \*, /).
- c) Explain looping statements along with their flowchart.
- d) Write a program to implement any five built in string library functions.

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