



# AJEENKYA

## D Y PATIL UNIVERSITY

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### Summer Term Examinations (July 2019)

School: School of Engineering

Program: BCA(CTIS/MACT)

Course: Programming in C

Course Code: CSC113

Semester: Summer Term

Max Marks: 50

Duration (mins): 90 mins

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#### Section A

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

**10 Marks**

- Define algorithm and list its properties.
- What are the advantages of high-level languages over machine language?
- Give any two differences between compilers & interpreters.
- What is recursion? What are its advantages?
- What is the difference between ++a and a++?
- What is C function? Write a syntax to declare and define function.
- Define pointer with example.
- Define structure with example.

#### Section B

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

**20 Marks**

- Explain in detail High level, Machine language and Assembly language.
- What is a loop? Explain in detail with example.
- Write a C program to swap two numbers using call by value method.
- Write a program to take four integer values as input and print the average.
- Describe in brief about calloc() and malloc() functions.
- Differentiate between structures and union.
- Describe fopen and fclose.

## Section C

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

**20 Marks**

- a) What is an operator? Explain the arithmetic, relational, logical, and assignment operators in C language.
- b) Explain looping statements along with their flowchart.
- c) Explain call by value and call by reference with the help of example
- d) Write a program in C to read the file and store the lines into an array.

**\*\*\*\*\* ALL THE BEST\*\*\*\*\***