



AJEENKYA

D Y PATIL UNIVERSITY

End Term Examinations (December 2018)

School: School of Information Technology **Program:** B.TECH

Course: Programming in C **Course Code:** CSC101

Semester: I **Max Marks:** 50 **Duration (mins):** 90

Section A

Q1. Answer the following. (Any Five)

10 Marks

- Explain fopen() and fclose().
- Define an algorithm and write an algorithm to calculate simple interest.
- Define recursion.
- List basic types of data types.
- List different types of user defined functions.
- Define pointer with an example.
- Write and explain the syntax for do... while loop.

Section B

Q2. Answer the following (Any Four)

20 Marks

- Write a C program to swap two numbers using call by value method.
- Explain array of pointers with an example.
- Draw and explain the flow chart for finding the greatest number between three given numbers.
- Write a program to find the factorial of a given number using recursion.
- Differentiate between array and pointer.
- Write a program to perform matrix addition and subtraction.

Section C

Q3. Answer the following (Any Two)

20 Marks

- a) Differentiate between malloc and calloc. Also justify is malloc or calloc which one is better.
- b) Define structure and write a program to store Information (name, roll, marks) of 5 students and display it Using Structure.
- c) Write a menu driven program for basic arithmetic operations (+, -, /, *).
- d) Explain following string library functions:
 - a. Strlen()
 - b. Strcpy()
 - c. Strcat()
 - d. Strcmp()
 - e. Strrev()
