B.Sc. (CBCS) Degree

First semester

Internet of Things

Paper I - Fundamentals of Computer and C-Programming
(Effective from 2020-21 admitted batch)

Model Question Paper

Total Marks: 75

Time: 3 hours

Section-A

(Answer any Five questions)

5x5 = 25

1. Draw Block diagram of Computer and explain various components of computer.

2. Write the difference between Primary and Secondary memory.

3. Draw a flowchart to find largest of three numbers.

4. Explain Basic structure of a Program.

5. Differentiate between break and continue.

6. Define Recursion and explain with an example

7. What are Local and Global variables explain with an example.

8. Explain about Pointer arithmetic.

Section-B

Unit-I

10x5 = 50

1) A) Write about generations of Computers
   b) List Input and output devices
      or

2) List and explain Types of Software
Unit-II
3) a) Define Algorithm and write the key features of Flow Charts
   b) List and explain Datatypen in C Language

or

4) Define Operator, operand and expression. List and explain types of operators

Unit-III
5) Explain Decision making statements and Loop Control Statements

or

6) What is an array? Write a C program to find an element in an Array using Linear Search

Unit-IV
7) List and explain String handling functions with example

or

8) Explain Passing Parameter by address & by value with suitable example code

Unit-V
9) What is a Pointer data type? Explain how Pointers are used with arrays

or

10) (a) Compare structure and Union
    b) Write a C program to define Student structure with Student name, adhnnome, marks
    and read ten student details