

[155 5 2136]

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

10X5=50

Unit-I

- 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 Datatypes 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, admno,marks and read ten student details