

Seat No. [REDACTED]

Enrolment No. 102CTBMC8 [REDACTED]

NATIONAL FORENSIC SCIENCES UNIVERSITY
B.Tech. – M.Tech. Computer Science and Engineering (Cyber Security)
Semester - I - March-2022

Subject Code: CTBTCSE S1 P4

Date: 17/03/2022

Subject Name: Fundamentals in Computer Programming with C

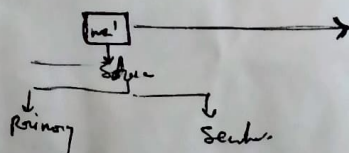
Time:

Total Marks: 100

Instructions:

1. Write down each question on separate page.
2. Attempt all questions.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.

- Q.1 (a) What is Computer? Draw block diagram of computer System and explain it. 10
- (b) What is Operating System? Explain functions of Operating System 05
- (c) Write an algorithm and Draw a flowchart to find simple interest 05
- OR
- (c) Write an algorithm and Draw a flowchart to convert temperature from Fahrenheit to Centigrade
- Q.2 (a) Explain different type of operators used in C language with their precedence and associativity. 10
- (b) Define (A) Token (B) Identifier (C) Constant (D) Type casting (E) Storage class 05
- (c) Write a C program to swap the values of two variables without using third variable. 05
- OR
- (c) What is type conversion? Explain implicit type conversion and explicit type conversion with example.
- Q.3 (a) What do you understand by looping? Explain different types of loops in C with example. 10
- (b) Write a C Program to print 1 to 20 using While statement. 05
- (c) Explain if...else and else if ... ladder with example. 05
- OR
- (c) State the syntax of Switch-case statement. Explain it with appropriate example.
- Q.4 (a) What are arrays? Explain two Dimensional and multidimensional array with example 10



Bit wise
Arithmetic
Relational Operator
Logical
Assignment
Traversal

- (b) What is Structure? How to define and access elements of structure? 05
Explain with complete example programme.
- (c) Explain gets() and puts() with example 05

OR

- (c) Explain strcpy() and strcmp() with example

- Q.5 (a) What is UDF? Discuss categories of UDF with example 10
- (b) Explain recursion function with example 05
- (c) Differentiate:- Call by Value V/s Call by reference 05

OR

- (c) Write a programme to pass entire array to UDF and count and print how many numbers are positive, negative and zero