



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA**  
**FACULTY OF COMPUTING**  
**DEPARTMENT OF COMPUTER SCIENCE**  
**2025\_1 EXAMINATION...**

**COURSE CODE : CIT301**

**COURSE CREDIT : 3**

**COURSE TITLE: STRUCTURED PROGRAMMING**

**TIME ALLOWED: 3 HOURS**

**INSTRUCTION: ANSWER QUESTION ONE AND ANY OTHER THREE (3) QUESTIONS**

**QUESTION 1**

1a. Sequel to the knowledge gained from structured programming, write a simple program to display the upper and lower case letter "B" (14 marks)

1b. Write down any five (5) reasons why the C Programming language has become popular. (5 marks)

1c. Declare a variable for each of the following C data types assigning appropriate data value at the pointer of declaration:

Float

Double

Character.

2marks each x 3

(6 marks)

[Total Marks = 25 marks]

**Question 2**

2a. Write briefly on any five (5) characteristics of a good program. (10 marks)

2b. Identify and explain the content of program documentation (5 marks)

[Total = 15 marks]

**Question 3**

3a. Name and briefly describe any five (5) operators supported by C language. (10 marks)

3b. Determine the value of y, if  $x = 9$  (5 marks)

[Total = 15 marks]

**Question 4**

4a. Name and elucidate on the 4 files used in a C Program (12 marks)

4b. State any three (3) reasons for the popularity of the C programming language (3 marks)

[Total = 15 marks]

**Question 5**

5a. Elucidate on any four types of programming paradigm (12 marks)

5b. Describe the concept of a programming model (3 marks)

[Total = 15 marks]

**Question 6**

6a. Haven been invited to a conference on software development, the justification for recommending C programming language as being the most effective structured programming language to the participants. (9marks)

6b. Write a C program to process the division of two numbers (6 marks)

[Total = 15

marks]