



NATIONAL OPEN UNIVERSITY OF NIGERIA

**PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA
FACULTY OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE
2025_2 EXAMINATIONS.**

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. Name and describe the two main types of computer programming languages. (6 marks)
1b. Elucidate on the six phases of program development in the order of precedence. (18 marks)
1c. Give a brief description of a computer program (1 marks)

[Total = 25 marks]

QUESTION 2

- 2a. Outline the roles of a Function Prototype (3 marks)
2b. The Syntax for a Function Prototype is given as follows: (2 marks)
2c. State any 2 differences between formal and local arguments. (5 marks)
2d. Write down a Function that reads data and prints result in same block. (5 marks)

[Total = 15 marks]

QUESTION 3

- 3a. Expound on the five characteristics of a good program. (10 marks)
3b. Write down and describe the content of program documentation (5 marks)

[Total = 15 marks]

Question 4

- 4a. Elucidate on the notion of Data Abstraction within the context of structured programming. (3 marks)
4b Write a simple function to select the largest of 3 numbers (10 marks)
4c. Give a concise description of a compound statement within the context of structured programming (2 marks)

[Total = 15 marks]

Question 5

- 5a. Name and explain any four common types of programming paradigm (12 marks)
5b. Expound on the notion of a programming model (3 marks)

[Total = 15 marks]

Question 6

- 6a. As an intern in a software development firm, you are required to make a recommendation on the most effective programming approach that will provide recursive functions. Write your recommendation. (10 marks)
6b. Write down the syntax for a Function with no arguments and return values. (5 marks)

[Total = 15 marks]