



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]