



National Open University of Nigeria
Plot 91, Cadastral Zone, NnamdiAzikiwe Expressway, Jabi - Abuja
Faculty of Science
APRIL 2019 EXAMINATION

Course Code: CIT736

Course Title: Computer Programming

Credit: 2 Units

Time Allowed: 2 Hours

Instruction: Answer Question 1 and any other three (3) Questions

Question 1

- (a) Briefly explain the following: **(4 marks)**
 - i. Procedure
 - ii. Nested Loop
- (b) Differentiate between formatted and unformatted I/O statements **(4 marks)**
- (c) State the syntax for OPEN a scratch file and OPEN a file for output **(4 marks)**
- (d) What is variable initialization and why is it important? **(2 marks)**
- (e) How do you declare a variable that will hold string values? **(3 marks)**
- (f) Compare an algorithm with a flowchart **(5 marks)**
- (g) What are internal and external procedures? **(3 marks)**

Question 2

- (a) What is meant by Data Structure? **(2 marks)**
- (b) Explain the types of data structures **(8 marks)**
- (c) List any five areas in which data structures are extensively applied **(5 marks)**

Question 3

- (a) Write short notes on FORTRAN Programming language **(4 marks)**
- (b) With the aid of suitable example, explain the DO Loop control structure **(8 marks)**
- (c) State the format of a **Case** statement **(3 marks)**

Question 4

- (a) Write a pseudo-code and an algorithm to find the sum of two numbers **(9 marks)**
- (b) Draw the flowchart for the algorithm in (4a) above **(6 marks)**

Question 5

- (a) State the use and structure of IF-THEN-ELSE statement. Give example **(6 marks)**
- (b) Write short notes on the following: **(9 marks)**
 - (i) Identifiers
 - (ii) Variable.
 - (iii) Number