



NATIONAL OPEN UNIVERSITY OF NIGERIA
**PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-
ABUJA**
FACULTY OF COMPUTING
DEPARTMENT OF COMPUTER SCIENCE
2024 1 EXAMINATION

COURSE CODE: CIT736
COURSE TITLE: COMPUTER PROGRAMMING
CREDIT UNIT: 2
TIME ALLOWED: 2 HRS
INSTRUCTION: ANSWER QUESTION ONE AND ANY THREE OTHERS

- 1(a) Define Syntax Error, Round-off Error, and Run-time Error. (6 marks)
(b) What is a computer program? (4 marks)
(c) Write a FORTRAN program to find the area of a triangle. (5 marks)
(d) Briefly discuss Pascal and FORTRAN programming (5 marks)
(e) With example, briefly differentiate between Complex and Character data types. (5 marks)

- 2(a) What are allocatable Arrays in Fortran 90/95. (5 marks)
(b) Write an example of a program that ALLOCATE/DEALLOCATE an array with a size based on user input that can generate many random numbers (10 marks)

- 3(a) Write a short note on COMMON statement and its general format (7.5 marks)
(b) Show with an example how a COMMON statement appears in a program (7.5 marks)

4 Write short notes on the following programming concepts:

- i. Variable and its syntax (5 marks)
- ii. Constant and its syntax (5 marks)
- iii. Algorithm (2.5 marks)
- iv. Flowchart (2.5 marks)

- 5(a) Briefly describe the role of debugging in computer programming project. (7 marks)
(b) Differentiate between Correcting Design-Time errors and Runtime errors. (8 marks)