

NATIONAL OPEN UNIVERSITY OF NIGERIA PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-ABUJA FACULTY OF SCIENCE

DEPARTMENT OF COMPUTER SCIENCE 2023_2 EXAMINATIONS.....

COURSE CODE: CIT736

COURSE TITLE: COMPUTER PROGRAMMING

CREDIT UNIT: 2 TIME ALLOWED : 2 HRS

INSTRUCTION: ANSWER QUESTION ONE AND ANY THREE OTHERS

- 1. (a) Briefly define Syntax Error, Round-off Error, and Run-time Error. (6marks)
 - (b) What is a computer program? (4 marks)
 - (c) Write a FORTRAN program to find the area of a triangle. (5marks)
 - (d) Briefly discus Pascal and FORTRAN programing. (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) Define a COMMON statement and its general format. (5 marks)
- (b) Show an example of how a COMMON statement appear in a program (15 marks)
- 4. Define the following programing concepts:

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

- 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)