



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI-  
ABUJA**  
**FACULTY OF SCIENCE**  
**DEPARTMENT OF COMPUTER SCIENCE ...**  
**JANUARY 2021 EXAMINATION**

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

1. (a) Differentiate between computer program, computer programming, and computer programmer. **(6marks)**  
(b) What is a Binary numeral system? **(4 marks)**  
(c) Write an example of a programme structure in Fortran 90/95 program. **(5 marks)**  
(d) List and explain any 5 standard input and output routines supported in Pascal. **(5 marks)**  
(e) With suitable example, differentiate between REAL and INTEGER numbers. **(5 marks)**
2. (a) Briefly describe the role of debugging in computer programming project **(7 marks)**  
(b) Differentiate between Correcting Design-Time errors and Runtime errors **(8marks)**
3. (a) List and explain 5 types of errors known to you. **(10 marks)**  
(b) What is a Translator **(5 marks)**.
- 4(a) State and explain the general form of a computer program main unit (main program). **(10 marks)**  
(b) Briefly differentiate between the followings: (5 marks)
  - i. Assembler
  - ii. Compiler
5. Using the FORTRAN 90/95, write a program that will compute and output the sum and product of three numbers. **(15 marks)**