



**NATIONAL OPEN UNIVERSITY OF NIGERIA  
FACULTY OF COMPUTING  
DEPARTMENT OF COMPUTER SCIENCE  
2024\_2 EXAMINATION**

**COURSE CODE: CIT 736**  
**COURSE TITLE: COMPUTER PROGRAMMING**  
**COURSE UNIT: 2**  
**TIME: 2HRS**  
**INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE (3)**

**QUESTIONS**

1(a) Write short note on the following

- i. Compiler **(3 marks)**
- ii. Subroutine **(3 marks)**
- iii. Debugging **(3 marks)**
- iv. Algorithm **(3 marks)**

1(b) Itemize the programme main unit form **(2 marks)**

1(c) Discuss assignment operations in programming. **(6 marks)**

1(d) Write down the full meaning of the following

- (i) IBM **(1 mark)**
- (ii) PhP **(1 mark)**

1(e) What is the full meaning of the following acronym:

- i. FORTRAN **(1 mark)**
- ii. COBOL **(1 mark)**
- iii. BASIC **(1 mark)**

2(a) Explain the FORTRAN program structure **(7 marks)**

2(b) Mention six examples explain why runtime errors is harder to handle than design errors **(8 marks)**

3(a) Discuss the chronological emergence of different FORTRAN versions **(7 marks)**

3(b) Draw a diagram of the program units in FORTRAN and explain the different parts **(8 marks)**

4(a) Demarcate four FORTRAN data types versus valid values **(12 marks)**

4(b) How can one design a flowchart? **(3 marks)**

5(a) State the systematic procedure for problem solving using computer **(4 marks)**

5(b) Write a short note on the use of variables and constants with examples in PASCAL **(11 marks)**