



NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
MAY/JUNE 2012 EXAMINATION

CIT636: Computer Programming
TIME ALLOWED: 2HRS

Instructions: Attempt any four (4) questions

Question 1

Write short notes on the following

- a) Machine Language (6 marks)
- b) Symbolic languages (7 marks)
- c) High Languages (7 marks)
- d) Program Control(5 marks)

Question 2

Explain the following terms;

- a) Conversion Error (5 marks)
- b) Syntax Error (5 marks)
- c) Round-off Error (5 marks)
- d) Run-time Error (5 marks)
- e) Logical Error (5 marks)

Question 3

- a) Enumerate five properties of a good Program. (10 marks)
- b) Itemize the generic format/form of the main unit of a Program. (15 marks)

Question 4

- a) Write briefly on Allocatable Arrays in FORTRAN (5 marks)
- b) Write a simple FORTRAN Program for the summation and the product of three numbers.

(20 marks)

Question 5

What are?

- a) ARRAYS? (7 marks)
- b) Static Size Arrays (6 marks)
- c) Dynamic Arrays (7 marks)
- d) The IF Statements (6 marks)

Question 6

Study the program below;

- a) Explain each line of code. (20 marks)
- b) What does the program do? (5 marks)

```
PROGRAM print_random
  IMPLICIT none
  REAL :: r
  INTEGER :: i
  CALL RANDOM_SEED
  DO i=1,5
    CALL RANDOM_NUMBER(r)
    WRITE (6,'(f9.7)') r
  END DO
END PROGRAM print_random
```