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**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

1. Machine Language (6 marks)
2. Symbolic languages (7 marks)
3. High Languages (7 marks)
4. Program Control( 5 marks)

Question 2

Explain the following terms;

1. Conversion Error (5 marks)
2. Syntax Error (5 marks)
3. Round-off Error (5 marks)
4. Run-time Error (5 marks)
5. Logical Error (5 marks)

Question 3

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

Question 4

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

(20 marks)

Question 5

What are?

1. ARRAYS? (7 marks)
2. Static Size Arrays (6 marks)
3. Dynamic Arrays 7 marks)
4. The IF Statements(6 marks)

Question 6

Study the program below;

1. Explain each line of code. (20 marks)
2. 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