



**NATIONAL OPEN UNIVERSITY OF NIGERIA
14-16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS
SCHOOL OF SCIENCE AND TECHNOLOGY
JANUARY/FEBRUARY 2013 EXAMINATION**

Course Title: CIT736: Computer Programming
Instruction: Attempt any four (4) questions
Credit Unit: 2
Time: 2hrs

Question 1

```
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
```

Study the program above;

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

Question 2

What are?

- i) ARRAYS? (9 marks)**
- ii) Static Size Arrays (8 marks)**
- iii) Dynamic Arrays (8 marks) Total = 25 marks**

Question 3

- i) Enumerate five properties of a good Program. (10 marks)**

- ii) **Itemize the generic format/form of the main unit of a Program. (15 marks)**

130214018

Question 4

Write a Basic Program for the summation and the product of three numbers. 25 marks)

Question 5

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 6

Write short notes on the following

- a) Machine Language (5 marks)**
- b) Symbolic languages (5 marks)**
- c) High Languages (5 marks)**
- d) Subroutine (5 marks)**
- e) Looping (5 marks)**

Total = 25 marks

130214018