



NATIONAL OPEN UNIVERSITY OF NIGERIA
14/16, Ahmadu Bello Way, Victoria Island

SCHOOL OF SCIENCE AND TECHNOLOGY
October, 2013 Examination

Course Title: Introduction to Object-Oriented Programming
Allowed: 2½ Hours.

Time

Course Code: CIT 383
Credits

Credit Unit: 2

Answer any four (4) questions. Total Score is 100 and each question carries 25 marks

- 1a. What is a programming Language?
(5 marks)
- 1b. List and explain any two categories of programming Language
(10 marks)
- 1c. List five (5) popular programming Languages
(10 marks)
- 2a. Explain the term “Object Oriented Programming Language”
(8 marks)
- 2b. Describe an inheritance in Object Oriented Programming?
(8 marks)
- 2c. List three main features of Object Oriented Programming?
(9 marks)
- 3a. Write a short note on each of the following:
 - (i) Overloaded Method and Overridden Method
(5 marks)
 - (ii) Local Variables and Instance Variables
(5 marks)
 - (iii) Set and Get Methods
(5 marks)
- 3b. What do you understand by Recursive Operator
(4 marks)
- 3c. Mention the three (3) ways to call a method
(6 marks)
- 4a. What do you understand by Operator Overloading?
(4 marks)
- 4b. List and explain three key restrictions to overloading the conversion operators
(12 marks)
- 4c. List the three (3) logical operators that can be directly overloaded for a class
(9 marks)

5a.. What is the difference between a Class and an Object?

(10 marks)

5b. What do you understand by the term methods?

(5

marks)

5c. List five (5) examples of methods

(10

marks)

6a. Explain the term “**downcasting**” (5 marks)

6b. List and explain two main types of polymorphism. Give an example of each.

(8 marks)

6c. Enumerate, giving examples, any four (4) examples of Message passing styles

(12 marks)