



**NATIONAL OPEN UNIVERSITY OF NIGERIA**  
**14/16, Ahmadu Bello way, Victoria Island, Lagos.**

**SCHOOL OF SCIENCE AND TECHNOLOGY**  
**OCTOBER, 2013 EXAMINATIONS**

**Course Code: CIT 734**

**Course Title: OBJECT ORIENTED TECHNOLOGY**

**INSTRUCTION:** *Answer any five questions out of Seven*

**Time: 3 HOURS**

- 1 (a) Briefly discuss the term Object.  
(b) List and explain at least five qualities of a Software product and process.  
(c) Enumerate ten principles of Software Engineering, and discuss any five.
- 2 (a) Describe an Interface.  
(b) Differentiate the various OOAD methodologies in terms of Proprietary, Type, Scope Strength  
Primary cited Applications/ Market.  
(c) Using a suitable example, explain how software objects are modelled after real-world object, with consideration to having state behaviour.
- 3 (a) Differentiate the following terms, Programming, Program and Algorithm.  
(b) Enumerate and discuss the three kinds of programming techniques.  
(c) Explain why object-oriented programming is regarded as a better technique over the other three mentioned above.
- 4 (a) Define and explain the relationship between Software and Software Engineering.  
(b) Using suitable diagram, discuss the phases of a Software Development Life Cycle (SDLC) or Software Life Cycle.  
(c) Draw and explain the Water Model of SDLC.
- 5 (a) Briefly explain the concept of Object-oriented programming.  
(b) Enumerate and explain the three underlying concepts of object oriented programming.  
(c) Outline and discuss at least three major object-oriented programming languages.
- 6 (a) Explain the term; Object Oriented Design (OOD).

(b) Discuss the Non-Formal View and Life-cycle view of OOD. Highlighting the differences between these views.

(c) Discuss the role of OOAD in Software Life Cycle.

7 (a) With reference to Object-oriented programming, define the term Relationship.

(b) Briefly explain Super class and Subclass, Clearly differentiating between them.

(c) Describe the abstract classes and explain the types of relationships of these classes.