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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**

CIT634: Object Oriented Technology

Time Allowed: 3hrs

Attempt any five (5) questions

Question 1

Write short notes on the following;

1. Polymorphism
2. marks)
3. Interface
4. marks)
5. Inheritance
6. marks)
7. Object
8. marks)
9. Three components of a Message

 (3 marks)

Question 2

1. Write Java codes for the “Hello World” Application.

 (2 mark for each correct statement = 12marks)

1. What is a Variable? (4 marks)
2. Write short note on OOAD methodologies (4 marks)

Question 3

1. Define Object Oriented Programming.

 (5 marks)

1. What is a Method?

 (5 marks)

1. What is Encapsulation?

 (5 marks)

1. Modular programming

 (5 marks)

Question 4

The life cycle of a computer-based system exhibits distinct phases:

1. Enumerate them.
2. marks)
3. Write briefly on the four enumerated.

(4 marks)

Question 5

1. Outline the Waterfall model of Software Life Cycle

(2 marks each = 10 marks)

1. Enumerate 10 important qualities of Software Product and Process.

 (1 mark each = 10 mark)

Question 6

1. Enumerate ten (10) Principles of Software Engineering

 (2 marks each = 18 marks)

1. List the two components the Java platform.

(1 mark each = 2 marks)

Question 7

1. Illustrate the Data Flow Diagram (DFD) for querying a database (14 marks)
2. Enumerate the steps notation in Booch’s methodology (6 marks)