



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

**Course Code:** CIT 834

**Time:** 3hrs

**Course Title:** Object-oriented Programming Using C# **Course**  
**Credit Unit:** 3

**Instruction:** Answer any **five (5)** questions

**QUESTIONS**

1a. Write a simple program to demonstrate a C# indexer in operation with a new string of 6.

(14marks)

1b. In the context of object-oriented programming using C#, write any three (3) possible states of a modifier.

(6marks)

**[Total =20**

**marks]**

2a. Describe the process of method overloading in object-oriented programming

(4marks)

2b. State the condition for using the static property.

(6marks)

2c. Write any five (5) basic features of Static Constructors

(10 marks)

**[Total =20  
marks]**

3a. Identify the key roles of the following:

i. Data-type

(4 marks)

ii. Index-name

(4 marks)

3b. Write the standard syntax for declaring accessors in object-oriented programming

(12 marks)

**[Total =20  
marks]**

4a. Give a concise description of the term 'private method' within the context of object-

oriented programming using C#.

(10 marks)

4b. In the event that there are two integer variables in a parallelogram class, write the standard syntax for adding these integers.

(10 marks)

**[Total =20  
marks]**

5a. State the factor that determines the class of setup instruction used in developing C#

(2 marks)

5b. Describe each of the following terms:

i. Namespace

(4 marks)

ii. Keyword

(4 marks)

5c. Write the source code for a classic Hello C# program (10 marks)

**[Total =20  
marks]**

6a. In the event that an argument in a method is labelled 'fifty-five', while the argument

in the TakesInteger is a parameter labelled i, for i=44. Give the expression for passing

the argument from a method referred to as 'PassesInteger' to another referred to as

'TakesInteger'.

(14 marks)

6b. State three (3) core steps involved in object-oriented programming. (6 marks)

**[Total =20 marks]**

7a. Give a concise explanation of the concept of 'Polymorphism' as it relates to

inheritance and upcasting.

(16 marks)

7b. State the key role of inheritance.

(4 marks)

**[Total =20**

**marks]**