



**NATIONAL OPEN UNIVERSITY OF NIGERIA,
PLOT 91 CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY,
JABI – ABUJA
FACULTY OF SCIENCES**

JULY 2017 EXAMINATION

COURSE CODE: CIT 351

COURSE CREDIT: 2

COURSE TITLE: C# PROGRAMMING

TIME ALLOWED: 2 Hours

INSTRUCTION: Answer question 1 and any other three (3) questions

QUESTIONS

1a. In view of the fact that you have completed the course in C# Programming, a beginner has just approached you for guidance. Write down the rules you would recommend that the learner adheres to while coding in C#.

(12 marks)

1b. Within the popular contexts of boxing and unboxing, how would you convert an integer of value type to a reference type in C# programming?

(4 marks)

1c. Use a simple C# program to illustrate your answer for 1b.

(7 marks)

1d. What is the significance of using the correct conventions when naming objects?

(2 marks)

[Total = 25 marks]

2a. Write down the class of operator for the following operators:

i. ++

(1 mark)

ii. %

(1 mark)

iii. !

(1 mark)

iv. ±

(1 mark)

v. ≡

(1 mark)

vi. &

(1 mark)

vii. ^

(1 mark)

viii. ≡

(1 mark)

2b. State the standard syntax for declaring a variable in C#.

(2 marks).

2c. C# is often described as being a 'strongly typed language'. Explain briefly. (2 marks)

2d. Name the three (3) permissible forms of comments allowed in C#.

(3 marks)

[Total = 15 marks]

3a. Assuming you are required to build a C# application on a laptop running Windows, state the minimal requirements to be met prior to building this application. (10 marks).

3b. Write down the command for building a console application named **NOUN.cs** within the hard drive. (2 marks).

3c. Give a concise description of the concept of case-sensitivity in C# programming language. (3 marks)

[Total = 15 marks]

4a. Outline the procedure for building and running a Graphic User Interface application with its source code written in C# (8 marks)

4b. Describe the concept of Finalizer within the context of C# classes (2 marks)

4c. Generally, VisualStudio.NET is regarded as an Integrated Development Environment. State five (5) good reasons to support this statement. (5 marks)

[Total = 15 marks]

5a. Give a concise description of the following C# Primitives:

- i. Char (1 mark)
- ii. Int64 (1 mark)
- iii. SByte (1 mark)
- iv. String (1 mark)
- v. Object (1 mark)

5b. Write down five (5) reasons why '**Statements**' are considered to be critical in C# Programming. (5 marks)

5c. List three (3) core tasks that can be performed in a C# project within the VisualStudio.NET setting. (3 marks)

5d. Write down any two common forms of Static properties in C# Programming. (2 marks)

[Total = 15 marks]