



**NATIONAL OPEN UNIVERSITY OF NIGERIA,**  
**UNIVERSITY VILLAGE, 91 CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI, ABUJA**  
**FACULTY OF SCIENCE DEPARTMENT**  
**OF COMPUTER SCIENCE \_ 2020\_2**  
**EXAMINATIONS**

**COURSE CODE: CIT351**

**COURSE TITLE: C# PROGRAMMING**

**COURSE UNIT: 2 UNITS**

**TIME ALLOWED: 2 HRS**

**INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE (3) QUESTIONS**

- 1a) Outline the relationship between C# and .NET Framework. (2 marks)
- 1b) State the four (4) basic rules that apply to C# code syntax and give the corresponding explanation of each rule (8 marks)
- 1c) i. Write a C# program that prompts users to enter their surname, read the name entered and prints it on a new line. (Note: declare the public and static class in your program). (9 marks)  
ii. What character is used for the three comment types/styles in the C# language? (3 marks)
- 1d) Generally ECMA is an international standard that specifies the semantic rules for interpreting C# programs. Write down any 3 matters that the ECMA does not specify. (3marks)
- 2a. Expound on the following template types in VS.NET:  
i Empty Project  
ii Windows Application **6 marks**
- 2b Outline and write briefly on the 3 categories of C# type system. **6 marks**
- 2c State the 3 main aims of ECMA. **3 marks**
- 3a Distinguish between value types and reference types. **5 marks**
- 3b State the syntax for declaring a variable in C# with an example and the corresponding explanation. **5 marks**
- 3c State 5 aspects that ECMA Does Not Specify **5 marks.**
- 4a Elucidate the term 'Statements within the context of a C# program'. **5 marks**
- 4b. Extensively discuss C# comments, highlighting the C# comment types . **10 marks**
- 5a) Name any two features of object-oriented language supported by the C# language. (1 mark)
- 5b) Write down in a tabular form, any 8 primitive types in C#, their corresponding aliases and descriptions. (12 marks)
- 5c) Briefly explain the difference between signed and unsigned integers. (2 marks)