NATIONAL OPEN UNIVERSITY OF NIGERIA
University Village, Plot 91, Cadastral Zone,
Nnamdi Azikiwe Expressway, Jabi, Abuja

FACULTY OF SCIENCES

APRIL/MAY, 2019 EXAMINATIONS

Course Code: CIT834
Course Title: Object Oriented Programming Using C#
Units: 3
Time Allowed: 2½ Hours
Instruction: Answer Question 1 and any other Four (4) questions

1a) Define the following C# terms (i) Namespace (ii) Keyword (iii) Net Framework. (6 marks)
1b) State **five** characteristics of object-oriented programming (10 marks)
1c) Explain the difference between dynamic type variables and object type variables in C# (6 marks)

2a) Enumerate **two** conditions on which the specific setup instructions used for C# development variation will depend on (4 marks)
2b) Explain the role of Method overloading (4 marks)
2c) Describe a destructor within the context of Object-Oriented Programming (4 marks)

3a) State the characteristics of subroutines usage in C#.NET (6 marks)
3b) What is the criterion for using the static property in C#.NET (3 marks)
3c) Explain the concept of encapsulation in C# (3 marks)

4a) Describe the constructors and their role in C# programming (4 marks)
4b) Explain nullable types in C# (4 marks)
4c) Describe the use of Methods in C# (4 marks)

5a) List six important features of static constructors (6 marks)
5b) Distinguish a struct from a class (4 marks)
5c) List any four features of a typical C# program consists of (2 marks)

6a) Describe two ways to pass parameters to a method in C# (6 marks)
6b) what are reference types in C#? Give two examples. (4 marks)
6c) Identify the base class for all exceptions in C# (2 marks)