



NATIONAL OPEN UNIVERSITY OF NIGERIA
UNIVERSITY VILLAGE, 91 CADASTRAL ZONE, NNAMDI AZIKWE EXPRESSWAY,
JABI, ABUJA
FACULTY OF SCIENCE
2021_1 EXAMINATION

COURSE CODE: CIT834

COURSE TITLE: Object Oriented Programming using C#

CREDIT: 3 Units

TIME ALLOWED: 2½ Hours

INSTRUCTION: Answer Question ONE (1) and any other FOUR (4) Questions

- 1(a) Identify 5 characteristics of Object Oriented Programming [5 marks]
- (b) Analyze the role of garbage collection [3 marks]
- (c) Demonstrate the syntax for defining c# indexer page [4 marks]
- (d) Appraise the relevance of methods in C# [4 marks]
- (e) Describe with an example how a reference type is created with the class keyword [6 marks]

- 2(a) Declare a static method with a formula to calculate the area of a parallelogram Use value of your choice the call the method. [8 marks]
- (b) Identify the relationship between polymorphism and object-oriented Programming [4 marks]

- 3(a) Write a C# program to display the text “Nigeria is a great country” using the WriteLine method. [4 marks]
- (b) Differentiate between a constructor and a destructor [4 marks]
- (c) Compare and contrast encapsulation and data abstraction [4 marks]

- 4(a) Identify 5 CLR features with their descriptions [5 marks]
- (b) Justify the importance of inheritance in OOP [2 marks]
- (c) Outline 5 properties of static constructors [5 marks]

- 5(a) Give the procedure to build the C# samples [6 marks]
- (b) Demonstrate how a method can be defined to provide encapsulation [6 marks]

- 6 (a) Write codes to declare multidimensional indexer [4 marks]
- (b) List the process of programming in an object oriented Language [3 marks]
- (c) Explain how Microsoft.Net is standardized [5 marks]