ROLL NO.

Subject: C# AND . **Code: AC73/AT73**

AMIETE - CS/IT

Time: 3 Hours

JUNE 2013

Max. Marks:

childent Bounty.com PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

NOTE: There are 9 Questions in all.

- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.
- The answer sheet for the Q.1 will be collected by the invigilator after 45 minutes of the commencement of the examination.
- Out of the remaining EIGHT Ouestions answer any FIVE Ouestions. Each question carries 16 marks.
- Any required data not explicitly given, may be suitably assumed and stated.

| Q.1 | Choose the correct or the best alternative in the following: a is a metalanguage. | | (2×10) |
|-----|--|--|--------|
| | | | |
| | (A) IDL (C) CTR | (B) CSL (D) None of these | |
| | b. The entity that compiles CIL into meaningful CPU instructions is termed as | | |
| | (A) JIT compiler(C) CIL compiler | (B) metadata compiler(D) None of these | |
| | c classes are types that cannot function as a base class to other type | | |
| | (A) abstract(C) sealed | (B) final(D) none of these | |
| | d. The namespace which defines a number of stock container objects is | | |
| | (A) system.data(C) system.IO | (B) system.collections(D) none of these | |
| | e. In C#, every data type is derived from a common base class called | | |
| | (A) System.All(C) System.Object | (B) System.Base(D) All of these | |
| | f. When do variables of reference type die ? | | |
| | (A) When the managed h(B) When it fall out of th(C) None of these(D) Both (A) & (B) | | |

- Student Bounty Com (A) True (B) False h. Every MBR type may be configured to be activated using (A) WKO (B) CAO (**D**) Either of these **(C)** None of these i. The default interface of a class may be populated by
- (A) Methods **(B)** Properties (C) Public field data (**D**) Any of these
- methods do not supply default implementation.
 - (A) Derived **(B)** Abstract (C) Overridden (D) None of these

Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks.

- 0.2 a. Explain the concepts of CTS and CLS (Common Language Specification). **(8)** b. List any 4 .NET Namespaces and briefly explain their purpose. **(8)** 0.3 a. With an example, explain how you compile multiple Source files. (8)b. List and briefly explain any four predefined XML documentation elements. **(8) Q.4** a. Write the anatomy of basic C# class. Write the variations of main() method. **(8)** b. List and explain the string formatting flags of C#. (8)
- **Q.5** a. Explain three pillars of OOP: Encapsulation, Inheritance and polymorphism. (8)
 - b. Explain abstract classes and abstract methods with example program. **(8)**
- **Q.6** a. What do you understand by errors, bugs and exceptions? Give the important members of the system exception class. **(8)**
 - b. Discuss the difference between catch and throw exceptions. (8)
- **Q.7** a. Explain in detail, the concept of interfaces with multiple base interfaces. (8)
 - b. Distinguish between shallow and deep copy, as applied to cloning. How would you implement cloning for a custom class using ICIoneable interface.

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Q.8 a. Which are the inherited members of System.MulticastDelegate. What is their

b. What do you understand by asynchronous delegates in C#. Explain with an example. (8)

Q.9 Write short notes on the following:

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- (i) Problem with COM versioning and COM deployment.
- (ii) Single file and multifile assemblies.

 (8×2)