ROLL NO.	

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

AMIETE - CS/IT

Time: 3 Hours | JUNE 2013 | Max. Marks: 100

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 Questions answer any FIVE Questions. Each question carries 16 marks.

Choos	Choose the correct or the best alternative in the following: (2×10^{-5})		
a	is a metalan	guage.	
	IDL CTR	(B) CSL(D) None of these	
b. The	entity that compiles C	CIL into meaningful CPU instructions is term	ed as
	JIT compiler CIL compiler	(B) metadata compiler(D) None of these	
c classes are types that cannot function as a base class to other types.		her types.	
	abstract sealed	(B) final(D) none of these	
d. The	namespace which de	fines a number of stock container objects is _	-
	system.data system.IO	(B) system.collections(D) none of these	
e. In C#, every data type is derived from a common base class called		·	
	System.All System.Object	(B) System.Base(D) All of these	
f. When do variables of reference type die ?		rence type die ?	
(B) (C)	 (A) When the managed heap is garbage collected (B) When it fall out of the defining scope (C) None of these (D) Both (A) & (B) 		

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g. You may construct methods that take interfaces as parameter as well as method that

		return values.			
		(A) True	(B) False		
	h. Every MBR type may be configured to be activated using				
		(A) WKO(C) None of these	(B) CAO(D) Either of these		
	i. The default interface of a class may be populated by				
		(A) Methods(C) Public field data	(B) Properties(D) Any of these		
	j methods do not supply default implementation.				
		(A) Derived(C) Overridden	(B) Abstract(D) None of these		
		· ·	ns out of EIGHT Questions. arries 16 marks.		
Q.2	a.	Explain the concepts of CTS and CI	S (Common Language Specification).	(8)	
	b.	List any 4 .NET Namespaces and br	iefly explain their purpose.	(8)	
Q.3	a.	With an example, explain how you o	compile multiple Source files.	(8)	
	b.	List and briefly explain any four pre	defined 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 formattin	g flags of C#.	(8)	
Q.5	a.	a. Explain three pillars of OOP: Encapsulation, Inheritance and polymorphism. (8)		(8)	
	b.	Explain abstract classes and abstract	methods with example program.	(8)	
Q.6	a.	What do you understand by error members of the system exception cla	s, bugs and exceptions? Give the imporass.	rtant (8)	
	b.	Discuss the difference between catch	n and throw exceptions.	(8)	
Q.7	a.	Explain in detail, the concept of inte	rfaces with multiple base interfaces.	(8)	
	b.	Distinguish between shallow and de implement cloning for a custom class	ep copy, as applied to cloning. How would is using ICIoneable interface.	you (8)	

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Q.8 a. Which are the inherited members of System.MulticastDelegate. What is their purpose? (8)

- b. What do you understand by asynchronous delegates in C#. Explain with an example. (8)
- **Q.9** Write short notes on the following:
 - (i) Problem with COM versioning and COM deployment.
 - (ii) Single file and multifile assemblies.

 (8×2)