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

## **AMIETE - CS/IT (NEW SCHEME)**

Time: 3 Hours **DECEMBER 2011**  Max. Marks: 100

NOTE: There are 9 Questions in all.

- Please write your Roll No. at the space provided on each page immediately after receiving the Question Paper.
- 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

Q.1	Choose the correct or the best alternative in the following: $(2\times1)$				
	a. C# supports response files.				
	(A) Single	(B) Multiple			
	(C) Two	<b>(D)</b> None of these			
	b. Which of the following is not a building block of the .Net platform?				
	(A) CLR	(B) CTS			
	(C) CLS	(D) CMS			
	c. C# Param keyword allows you to send various number of arguments as a parameter.				
	(A) double	(B) single			
	(C) multiple	( <b>D</b> ) none of these			
	d. A block can be used to handle any Exception generated within a try box.				
	<b>(A)</b> Try	(B) Catch			
	(C) Finally	(D) none of these			
	e. The method whose references are encapsulated into a delegate instance are known as				
	(A) Event handlers	(B) System methods			
	(C) Delegate methods	(D) none of these			
	f. Interfaces are used as	_whose properties are inherited by classes	S.		
	(A) Sub-classes	( <b>B</b> ) Private -classes			
	(C) Super- classes	( <b>D</b> ) none of these			

ROLL NO.	

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

	g.	in .NE1, references types are				
		<ul><li>(A) Classes</li><li>(C) Pointers and Delegates</li></ul>	<ul><li>(B) Interfaces</li><li>(D) All of the above</li></ul>			
	h.	h. The. NET offers a complete suite for developing and deploying applications. The suite consists of				
		<ul><li>(A) .NET products</li><li>(C) .NET Framework</li></ul>	<ul><li>(B) .NET Services</li><li>(D) All of the above</li></ul>			
	i.	Constructors are				
		<ul> <li>(A) member functions of a class</li> <li>(B) same name as its class</li> <li>(C) special methods that allow control over the initialization of objects</li> <li>(D) All of the above</li> </ul>				
	j.	When an object is created from a ter	mplate, it is called			
		<ul><li>(A) message</li><li>(C) property</li></ul>	<ul><li>(B) instantiation</li><li>(D) collection</li></ul>			
		Answer any FIVE Question Each question ca				
Q.2	a.	What are component libraries? Ho programs?	w do they differ from executable appli-	cation (8)		
	b.	windows family of operating sy	ly new model for building systems of system and other OS now and in fi			
		Comment.		<b>(8)</b>		
Q.3	a.		d by C# compiler. Explain with the he			
Q.3		How a bug report can be generate example.	d by C# compiler. Explain with the he	elp of an <b>(8)</b>		
		How a bug report can be generate example.  What is the difference between "ru application?  Write a program to display following 1 2 2 3 3 3 3	inning" an application versus "debuggir	elp of an (8) ag" an (8)		
Q.3 Q.4	b.	How a bug report can be generate example.  What is the difference between "ru application?  Write a program to display followin 1 2 2	inning" an application versus "debuggiring output:	elp of an (8)		

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

- Q.5 a. What are nested Classes? Is it possible to define a type within the scope of another type? **(8)** b. Define a base class called car with following members: An integer data member to store the size of the car (ii) A float data member to store the speed of the car (iii) An integer data member to store the strength of the car (iv) A method to MoveLeft() **(8)** a. What do you understand by exception? Why exception handlers are required? **Q.6** Explain this with the help of an example. b. What do you understand by object lifetime? Write a program to illustrate this. **(8) Q.7** a. What is an interface? What are the major differences between a class and an interface? **(8)** b. Write a program in C# where an interface Area is implemented by two classes Circle and Square. **(8)** a. What is Multicast Delegate in C#? Explain with the help of an example. **Q.8 (8)** b. What are events? Differentiate between Delegates and Events. **(8) Q.9** Write short notes on the following:  $(8\times2)$ (i) Private assemblies

  - (ii) Strong names