**ROLL NO.** 

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

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

Time: 3 Hours

**DECEMBER 2011** 

Max. Marks: 100

Student Bounty.com 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 Questions, answer any FIVE Questions. Each question carries 16 marks.

Q.1	Choose the correct or the best alternative in the following: $(2\times10$ a. C# supports response files.	
	(A) Single (C) Two	<ul><li>(B) Multiple</li><li>(D) None of these</li></ul>
	b. Which of the following is not a building block of the .Net platform?	
	(A) CLR (C) CLS	(B) CTS (D) CMS
	c. C# Param keyword allows you to send various number of arguments as a parameter.	
	<ul><li>(A) double</li><li>(C) multiple</li></ul>	<ul><li>(B) single</li><li>(D) none of these</li></ul>
	d. A block can be used to handle any Exception generated within a try box.	
	(A) Try (C) Finally	<ul><li>(B) Catch</li><li>(D) none of these</li></ul>
	e. The method whose references are encapsulated into a delegate instance are known as	
	<ul><li>(A) Event handlers</li><li>(C) Delegate methods</li></ul>	<ul><li>(B) System methods</li><li>(D) none of these</li></ul>
	f. Interfaces are used aswhose properties are inherited by classes.	
	<ul><li>(A) Sub-classes</li><li>(C) Super- classes</li></ul>	<ul><li>(B) Private -classes</li><li>(D) none of these</li></ul>

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## Student Bounty.com **Code: AC73/AT73 Subject: C# AND .NET** g. In .NET, references types are\_ (A) Classes **(B)** Interfaces (C) Pointers and Delegates **(D)** All of the above h. The. NET offers a complete suite for developing and deploying applications. The suite consists of . (B) .NET Services (A) .NET products **(C)** .NET Framework **(D)** All of the above i. Constructors are\_\_\_\_\_ (A) member functions of a class **(B)** same name as its class (C) special methods that allow control over the initialization of objects **(D)** All of the above j. When an object is created from a template, it is called\_\_\_\_\_. (A) message **(B)** instantiation (**D**) collection (C) property Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks. a. What are component libraries? How do they differ from executable application 0.2 programs? **(8)** b. ".NET Framework is a completely new model for building systems on the windows family of operating system and other OS now and in future" Comment. a. How a bug report can be generated by C# compiler. Explain with the help of an Q.3 example. b. What is the difference between "running" an application versus "debugging" an application? a. Write a program to display following output: 0.4 2 2 3 3 3

4 4 4 4

**(8)** 

**(8)** 

b. Define arrays. Explain with the help of an example.

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- Student Bounts, com Q.5 a. What are nested Classes? Is it possible to define a type within the scope of another type? 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. **(8) Q.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