Code: AC73/AT73

Subject: C# AND .

AMIETE - CS/IT (NEW SCHEME)

Time: 3 Hours

JUNE 2012

Max. Marks:

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.

Q.1	Choose the correct or the best alternative in the following: (2×10^{-5})			
	a. File extension of response file is			
	(A) .exe (C) .csc	(B) .rsp(D) None of these		
	b. The name of the default Response file is			
	(A) CSC.rsp (C) Clr.rsp	(B) CTS.rsp(D) None of these		
	c. Compare To() method of system.String performs			
	(A) comparison of two strings(C) removing of a string	(B) joining of two strings(D) none of these		
	d. To insert a single string quote literal in a sentence, the Escape sequence character is			
	(A) a. \' (C) c. \\'	(B) b. \" (D) none of these		
	e. Exception is a condition that is caused by error in the program.			
	(A) compile_time(C) diagnostic_time	(B) run_time(D) load_time		
	f is a delegate type class me provide notification to other objection.	mber that is used by the object as class to cts that an event has occurred.		
	(A) Event(C) System	(B) Modifier(D) None of these		

Student Bounty Com ROLL NO. Subject: C# AND . **Code: AC73/AT73** g. The .NET Framework consists of application languages (A) C#, VB.Net (B) Managed C++and Jscript.Net (C) Both (A) and (B) (**D**) none of these h. _____means adding new methods with the same name but of different signatures. (A) Functions **(B)** Overriding (C) Inheritance (**D**) Overloading i. Name the class from where everything is derived in .NET (A) System. Object **(B)** Document.object (C) System. Class **(D)** None of the above j. How do you inherit derived class from a base class in C#.NET? (A) Referencing super class (B) By using colon and then the name of the base class (C) Naming base class **(D)** None of the above Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks. a. What are the building blocks of .NET platform? **(8)** b. What are the main features of C# language? **(8)** a. What do you understand by pre processor directive? State different types of preprocessor symbols with their meaning. **(8)** b. Briefly explain the use of Response file? How do you instruct the C# compiler to use a response file? Does C# complier support multiple response files? (8)

- Q.4 a. Write code segments in C# to sort arrays by implementing static method of sorting on numeric as well as string data. (8)
 - b. What are the core members of System. Object, what is their meaning? (8)
- **Q.5** a. What is polymorphism? Illustrate with an example. (8)
 - b. Define a base class called Animal with following members:
 - (i) a string data member to store the name of the animal
 - (ii) an integer data member to store the age of the animal in years (8)

0.2

0.3

ROLL NO.

 (8×2)

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Q.6	a.	What are Exceptions in C# and .Net ? How they are handled in C# and .NET. (8)	
	b.	What is do you understand by Garbage collection in C#? Explain the significance of System.GC Type. (8)	-

- Q.7 a. What are implementation inheritance and interface inheritance? How to prevent a class from being inherited in C#.NET? (8)
 - b. Write a program to illustrate explicit interface implementation which allows a method to specify explicitly the name of the interface it is implementing. (8)
- Q.8 a. What are asynchronous delegates? When they are used? (8)
 - b. What is the purpose of Event? Where is it used? How is it established? (8)
- **Q.9** Write short notes on the following:

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(i) Cross language inheritance(ii) Shared assembly