ROLL NO.	

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

AMIETE - CS/IT (Current Scheme)

Time: 3 Hours JUNE 2015 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. Any required data not explicitly given, may be suitably assumed and stated. 					
Q.1	C	hoose the correct or the best alter	rnative in the following:	(2×10)	
	a.	Which of the following statements	s is correct about Managed Code?		
		 (A) Managed code is the code that is compiled by the JIT compilers (B) Managed code is the code where resources are Garbage Collected (C) Managed code is the code that runs on top of Windows (D) Managed code is the code that is written to target the services of the CLR 			
	b.	s can be stored in Global Assembly Cache?			
		(A) Private Assemblies(C) Shared Assemblies	(B) Friend Assemblies(D) Public Assemblies		
	c. Code that targets the Common Language Runtime is known as				
		(A) Unmanaged(C) Legacy	(B) Distributed(D) Managed Code		
	d. Which of the following is an 8-byte Integer?				
		(A) char (C) short	(B) long (D) byte		
	e. Which of the following does not store a sign?		tore a sign?		
		(A) short (C) long	(B) integer(D) byte		
	f. Which of the following is the correct default value of a Boolean type?				
		(A) 0 (C) true	(B) 1 (D) false		

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	g.	Which of the following statemen C#.NET?	its is correct about classes and obj	ects in
		 (A) Class is a value type (B) Objects of smaller size are created (C) Smaller objects that get created (D) Objects are always nameless 	-	
	h. Can static procedures access instance data?			
		(A) True	(B) False	
	i.	How many times can a constructor	be called during lifetime of the object?	
	 (A) As many times as we call it (B) Only once (C) Depends upon a Project Setting (D) Any number of times before the object is deleted 			
	j.	Which of the following should be relationship between two entities?	used to implement a 'Like a' or a 'K	Kind of
		(A) Polymorphism(C) Templates	(B) Encapsulation(D) Inheritance	
		Answer any FIVE Question Each question ca	<u> </u>	
Q.2	a.	· ·	rries 16 marks.	(8)
Q.2		Each question ca	arries 16 marks. attures of .NET	(8)
Q.2 Q.3		Each question can be a List and briefly explain the core fewer than the role of .NET type Metals.	arries 16 marks. attures of .NET	(8)
	b.	Each question can be a List and briefly explain the core fewer than the role of .NET type Metals.	atures of .NET adata. emblies in .NET? Explain with an exam	(8) mple.
	b.	Each question can be a considered as a considered can be a considered can be a considered as a considered can be a conside	atures of .NET adata. emblies in .NET? Explain with an exam	(8) mple. (8) (8)
Q.3	b.a.b.a.	Each question can be a considered as a considered can be a considered can be a considered as a considered can be a conside	atures of .NET adata. emblies in .NET? Explain with an examonse files. arguments in C# using a suitable C# co	(8) mple. (8) (8)
Q.3	b.a.b.a.	Each question can be a considered to the core few shadow of the core	ntures of .NET adata. emblies in .NET? Explain with an example onse files. enguments in C# using a suitable C# constructors in C#.	(8) mple. (8) (8) ode. (8)

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Q.6 a. How can one debug system exceptions using vs .NET? Explain. (8)

- b. What is do you understand by Garbage collection in C#? Explain the significance of System.GC Type. (8)
- Q.7 a. What does Icomparable interface specify? Give a C# code for Icomparable interface. (8)
 - b. Can we use interfaces in C# as polymorphic agent? Explain using an example. (8)
- Q.8 a. How do you define delegates in C#? Give an example program in C# for its implementation. (8)
 - b. How can one invoke methods asynchronously? Explain using C# code. (8)
- Q.9 a. What is GAC? How can one register an assembly using GAC? Explain. (8)
 - b. Explain the following using C# code wherever required:
 - (i) Private assembly
- (ii) Shared assembly