ROLL NO.

Code: DC69

Diplete – CS

Time: 3 Hours

DECEMBER 2014

Max. Marks: 100

Subject: C# & .NET

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 Choose the correct or the best alternative in the following:

 (2×10)

- a. What is the output of the code public class $B:A\{\}$
 - (A) Errors
 - (B) It defines a class that inherits the public methods of A only
 - (C) It defines a class that inherits all the methods of A but the private members cannot be accessed
 - **(D) (B)** and **(C)**
- b. Two methods with the same name but different parameters is know as

(A) Method Overloading	(B) Loading
(C) Duplexing	(D) Multiplexing

- c. Convert vs parse methods:
 - (A) Convert allows null values, Parse cannot
 - (B) Convert converts the value, Parse is for parsing
 - (C) Both are same
 - **(D)** None of the above
- d. Which of the following is not a .NET compatible language?

(A) C#	(B) VB.NET
(C) Managed C++	(D) JAVA

- e. Common language specification (CLS)
 - (A) Is an execution engine for all .NET applications
 - **(B)** Is similar to JVM as in Java
 - (C) Defines standard rules for defining .NET compliant languages
 - (D) Is a compiler

Code

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f. Contents of assembly file can be i	nvestigated using
(A) ILDASM.exe(C) ILDASM.inc	(B) ILDASM.dll (D) ILDASM.aspx
gNET Framework contains the con	mponents (Choose all that apply)
(A) Windows applications(C) CLR	(B) Windows services(D) All of these
h. Early binding can also be called a	S
(A) Static linking(B) Compile time Binding	(B) Static Binding(D) All of these
i. The job of JIT or jitter is to	
 (A) Compile CIL into machine-sp (B) Compile code into CIL (C) All of the above (D) None of the above 	ecific-code

j. An abstract class cannot be instantiated. True/False?

(A) TRUE

(B) FALSE

Answer any FIVE Questions out of EIGHT Questions. Each question carries 16 marks.

Q.2	a.	List and briefly explain the characteristics of C#.	(8)
	b.	Explain the different services provided by CLR of .NET framework.	(8)
Q.3	a.	Explain while statement with the help of general syntax and example. How different from do statement?	w it is (8)
	b.	Explain, what is conditional operator? Write a program to find the large three integers using conditional operator.	ger of (8)
Q.4	a.	How we access the length of the array? Explain with the help of an exa Write a program that uses array length method for sorting a list of numbers	-
	b.	Differentiate between pass by value and pass by reference with examples.	(8)
Q.5	a.	Explain any four string methods used in C# programming.	(8)
	b.	What is enumeration? How is it useful in C# programming?	(8)

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Q.6	a.	What is inheritance? Give its general syntax? With the difference between multilevel and hierarchical in	1 1 1	
	b.	Explain the different C# access modifiers used members of a class.	to control accessibility of (8)	
Q.7	a.	Define abstract class. How it is different from interfa-	aces? (4+4)	
	b.	Explain operator overloading. Write some opera overloaded.	tors in C# that cannot be (6+2)	
Q.8	a.	Define delegates. What are the four steps involved in delegates?	n creating and using (2+6)	
	b.	What are events? How does C# handle events? Giv used.		
Q.9	а.	What is an exception? With a neat block diagram code.	explain exception handling (8)	
	b.	Explain the following methods of Thread class:- (i) Join (ii) Resume (iii) Sleep (iv) Spinwait	(8)	