Code: DC69

ROLL NO. Subject: C# & .NA

Diplete – CS

**Time: 3 Hours** 

## **DECEMBER 2013**

 $(2 \times 10)$ 

StudentBounty.com PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

## NOTE: There are 9 Ouestions 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:

a. The C++ feature missing from C# is .

- (A) Encapsulation **(B)** Macros (C) Inheritance (**D**) None of these
- technology is used by microsoft to enable interprocess b. \_ communication.

(A) OLE (**C**) .NET (B) COM (**D**) None of these

- \_\_\_\_\_ is responsible for loading and executing programs in .NET с. framework.
  - (A) CLR (**B**) Framework base classes (C) user and prg. interfaces (**D**) None of these
- d. \_\_\_\_\_\_ is the Boolean literals in C# programming language.

(A) 0 & 1	( <b>B</b> ) True & False
( <b>C</b> ) T & F	<b>(D)</b> None of these

e. The size of double precision numbers in C# programming language is \_\_\_\_\_

(A) 2 bytes	<b>(B)</b> 4 bytes
(C) 6 bytes	<b>(D)</b> 8 bytes

f. Default value of a Boolean variable in C# is

( <b>A</b> ) 0	( <b>B</b> ) true
(C) false	( <b>D</b> ) 1

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**DidIETE - CS** 

	Code: DC69	ROLL NO. Subject: C# & .NL lifier, a method can be accessed with a derived class. (B) public (D) static
Ę	g. Using which of the following mod	lifier, a method can be accessed with
	class in which it is defined and from	n a derived class.
	(A) private	(B) public
	(C) protected	( <b>D</b> ) static
ł	h. The ternary operator available in C# is	
	(A) ?:	( <b>B</b> ) ++
	(A) /. (C) <<	( <b>b</b> ) ++ ( <b>b</b> ) !:
i	. An interface in C# is a	
	(A) static type	(B) reference type
	( <b>C</b> ) constructor type	( <b>D</b> ) none of these
j	j. The process in which more than one method is created with the same name is called	
	(A) Overloading	(B) Overriding
	(C) Virtual functions	(D) Inheritance

## 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 CLR of .NET framework.	(8)
Q.3	a. With a block diagram, explain a general C# program structure.	(8)
	b. Write a C# program to convert decimal number into its equivalent binary	format.( <b>8</b> )
Q.4	a. Write a program in C# to print multiplication table using do-while loop.	(8)
	b. Differentiate between pass by value and pass by reference using suitable	examples. (8)
Q.5	a. Distinguish between write and writeline methods. Write a C# pro demonstrates the application of these methods.	gram that (8)
	<ul> <li>b. Explain compare(), equals() methods and == operator used to compare st an example for each.</li> </ul>	trings with ( <b>8</b> )
Q.6	a. Explain the use of regular expressions in C# with an example.	(8)
	b. Explain C# access modifiers used to control member access.	(8)

		ROLL NO. Subject: C# & .NI xample program. he difference between a static meth
	Code: DC69	Subject: C# & .NL
Q.7	a. Illustrate method overriding in C# using an e	xample program.
	b. When do we use static methods? What is t and an instance method?	he difference between a static meth
	c. What are abstract classes? What are abstract each.	methods? Explain with an example for (8)
Q.8	a. What is the need of operator overloading overloading of unary minus.	g? Write a program to demonstrate (8)
	b. Explain delegate methods and delegate instar	ntiation with examples in C# (8)
Q.9	a. Can the Threads priority be set? Write a priority property.	C# program that illustrate the use of (8)
	b. With an example code, explain how we can t	hrow our own exception. (8)

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