ROLL NO.

Code: DC69

Subject: C# & .NA

Diplete - CS

Time: 3 Hours

DECEMBER 2013

Student Bounty.com 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) | | | |
|-----|--|--|--|--|
| | a. The C++ feature missing from C# is | | | |
| | (A) Encapsulation(C) Inheritance | (B) Macros(D) None of these | | |
| | b technology is communication. | used by microsoft to enable interprocess | | |
| | (A) OLE (C) .NET | (B) COM(D) None of these | | |
| | c is responsible framework. | for loading and executing programs in .NET | | |
| | (A) CLR(C) user and prg. interfaces | (B) Framework base classes(D) None of these | | |
| | d is the Boolean literals in C# programming language. | | | |
| | (A) 0 & 1 (C) T & F | (B) True & False(D) None of these | | |
| | e. The size of double precision numbers in C# programming language is | | | |
| | (A) 2 bytes (C) 6 bytes | (B) 4 bytes (D) 8 bytes | | |
| | f. Default value of a Boolean variable in C# is | | | |
| | (A) 0 (C) false | (B) true (D) 1 | | |

| | g. | Using which of the following mod class in which it is defined and from | ifier, a method can be accessed with a a derived class. | OL |
|------------|--|--|--|-----------------------------|
| | | (A) private(C) protected | (B) public (D) static | |
| | h. The ternary operator available in C# is | | | |
| | | (A) ?: (C) << | (B) ++ (D) !: | |
| | i. | An interface in C# is a | | |
| | | (A) static type(C) constructor type | (B) reference type(D) none of these | |
| | j. The process in which more than one method is created with the same r called | | | |
| | | (A) Overloading(C) Virtual functions | (B) Overriding(D) Inheritance | |
| | | | | |
| | | • | ns out of EIGHT Questions. arries 16 marks. | |
| Q.2 | a. | • | arries 16 marks. | (8) |
| Q.2 | | Each question c | arries 16 marks. | (8) |
| Q.2 Q.3 | b. | Each question control List and briefly explain the character | eristics of C# | |
| | b. | Each question control List and briefly explain the character Explain CLR of .NET framework. With a block diagram, explain a general control c | eristics of C# | (8) (8) |
| | b.a.b. | Each question control List and briefly explain the character Explain CLR of .NET framework. With a block diagram, explain a general control c | eristics of C# meral C# program structure. mal number into its equivalent binary forma | (8) (8) |
| Q.3 | b.a.b.a. | Each question convert deci- List and briefly explain the character Explain CLR of .NET framework. With a block diagram, explain a ger Write a C# program to convert deci- Write a program in C# to print multi- | eristics of C# meral C# program structure. mal number into its equivalent binary forma | (8) (8) at.(8) (8) |
| Q.3 | b.a.b.b. | Each question control List and briefly explain the character Explain CLR of .NET framework. With a block diagram, explain a ger Write a C# program to convert decide Write a program in C# to print multiplicate Differentiate between pass by value | eristics of C# meral C# program structure. mal number into its equivalent binary formatiplication table using do-while loop. and pass by reference using suitable example writeline methods. Write a C# program | (8) (8) (8) (8) (8) |
| Q.3 Q.4 | b.a.b.b. | Each question control List and briefly explain the character Explain CLR of .NET framework. With a block diagram, explain a ger Write a C# program to convert decided Write a program in C# to print multiplicate Differentiate between pass by value Distinguish between write and very series. | eristics of C# meral C# program structure. mal number into its equivalent binary formatiplication table using do-while loop. and pass by reference using suitable example of the company of the compan | ŗ |
|).3).4 | b.a.b.b. | Each question control List and briefly explain the character Explain CLR of .NET framework. With a block diagram, explain a ger Write a C# program to convert decide Write a program in C# to print multiplicate Differentiate between pass by value | eristics of C# meral C# program structure. mal number into its equivalent binary formatiplication table using do-while loop. e and pass by reference using suitable example. | (8) (8) (8) (8) (8) |

Q.6

a. Explain the use of regular expressions in C# with an example.

b. Explain C# access modifiers used to control member access.

(8)

(8)

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- **Q.7** Illustrate method overriding in C# using an example program.
 - b. When do we use static methods? What is the difference between a static methods. and an instance method?
- Student Bounty.com c. What are abstract classes? What are abstract methods? Explain with an example for each.
- a. What is the need of operator overloading? Write a program to demonstrate **Q.8** overloading of unary minus. **(8)**
 - b. Explain delegate methods and delegate instantiation with examples in C# **(8)**
- a. Can the Threads priority be set? Write a C# program that illustrate the use of **Q.9** priority property.
 - b. With an example code, explain how we can throw our own exception. **(8)**