BSc IT 2010 : C# - OCT

Answer key / correct responses on:

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MUMBAI UNIVERSITY (BSc IT)
C# - OCT - 2010

(4) Answers to the same question must be written together.
(5) Numbers to the right indicate marks.
(6) Draw neat labeled diagrams wherever necessary.

1. Answer the following questions:-
   a) C# is type-safe language. Comment. — 5
   b) What is CLR? Explain the role of CLR in Dot NET framework. — 5
   c) Explain abstract class and method with an example. — 5
   d) What is mixed-mode arithmetic expression? How it is evaluated? — 5

2. a) Explain the implicit and explicit conversion operator. Give an example of application. — 6
   b) How does the for each statement differ from the for statement? Give a typical example where a for each is used. — 6
   c) Write a method that would take two arrays as input and produces a third array by appending one to the other. — 8

3. a) How does an array of ArrayList class differ from an array of Array class? — 6
   b) Explain the copy and private constructor with an example. — 6
   c) Explain the concept of pass-by-value and pass-by-reference with an example. — 8

4. a) What is property? Explain how read-only property is achieved? — 6
   b) Describe the visibility of class members declared with the following modifiers: — 6
      i) Private ii) Protected iii) Protected Internal
   c) Find the error, correct and rewrite the program: — 8
      i) sealed class A { }
         class B : A
         { ......;
         }
      ii) new interface A
          { void Me();
          };

5. a) List the operators that are not overloaded. And compare the comparison operator and overloading the arithmetic operator. — 6
   b) What is an event handler? Explain how it is designed. — 6
   c) What is an interface? Describe various forms of implementing interfaces. Give examples of C# code for each case. — 8

6. a) Explain the different components of Dot NET Framework. — 6
   b) Write a program that would print the value 123.6789 in fixed-point format with the following specifications: — 6
      i) Correct to two decimal places.
      ii) Correct to zero decimal places.
   c) What is delegate? Enumerate the steps involved in creating and using a delegate. — 8

7. a) How do we define try block, catch block and finally block? Explain. — 6
   b) What is an indexer? Explain how it is different from property in terms of implementation. — 6
   c) How do we execute a program having more than one class with the Main methods? Explain with example. — 6
   d) What is managed code? — 2