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BSc IT 2008 : C#

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MUMBAI UNIVERSITY (BSc IT)

C# 2008

Mha 1-07 435

Con. 1608-08.

ST-6019

(3 Hours)

[Total Marks : 100

- Note: (1) Question No. 1 is compulsory
 (2) From Question No. 2 to Question No. 7 attempt any four questions.
 (3) Make suitable assumptions wherever necessary.
 (4) Answer to the same question must be written together.

1. Answer the following:

- a) What is Common Language Runtime? Explain. 4
 b) What do you mean by a static constructor? Why is it needed? 4
 c) Discuss Boxing and Unboxing. 4
 d) What are properties? How do you define a property as read-only or write-only? 4
 e) Give four significant differences between C++ and C#. 4

2. a) Explain jagged arrays. How are they different from regular arrays? 6
 b) Explain switch case statement with the help of example. 6
 c) Write a program to create a class called 'Point' that has two integer member variables to represent the x and y coordinates of a point. Include an operator method for unary operator '++' to increment a Point object. 8

3. a) What are checked and unchecked operators? Give an example. 6
 b) Differentiate between abstract classes and interfaces. 6
 c) A bank charges commission on the issue of Demand Drafts at the following rates: 8

<u>DD Amount</u>	<u>Commission</u>
Upto Rs. 500	Rs. 10
Rs. 501 to Rs. 1000	Rs.15
Rs. 1001 to Rs. 5000	Rs.25
Rs. 5001 to Rs. 10000	Rs.30
Above Rs. 10000	Rs. 3 for every Rs. 1000

Write a program, which accepts DD amount from the terminal, and calculate the commission payable and print it along with the DD amount.

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4. a) Explain method overriding with the help of a suitable example. 6
- b) Explain dynamic binding with a suitable example. 6
- c) Write a program to create a class named AudioVideoRecord that stores the name of the movie, year of its release and its price. From this class derive another class named SongRecord, which has a member variable for storing number of songs. Both of these classes should include appropriate constructors for the initialization of their data members and a display() method to display their data members. Test the above classes by creating object of SongRecord in Main() method. 8
5. a) Explain parameter arrays in C#. Give three restrictions in declaring parameter arrays. 6
- b) What is operator overloading? Explain the syntax of operator method for binary operator overloading. 6
- c) Write a program that declares an interface with a method definition for calculating the average of N numbers. Implement this interface in a class called Vehicleavg to calculate the average mileage of vehicles. Test the above class by calling average method inside Main() method. 8
6. a) Discuss String methods Concat, Insert and Split giving proper syntax and example. 6
- b) Explain the concept of copy constructor and private constructor. 6
- c) Write a program to create a delegate called TrafficDel and a class called TrafficSignal with the following delegate methods:
- ```
public static void Yellow(){
 Console.WriteLine("Yellow Light Signals to Get Ready"); }
public static void Green() { Console.WriteLine("Green Light Signal to Go");
}
public static void Red() { Console.WriteLine("Red Light Signals to Stop"); }
```
- Also include a method IdentifySignal() to initialize an array of delegate with the above methods and a method Show() to invoke the members of the above array. 8
7. a) Write any four differences between Virtual methods and non-virtual methods. 6
- b) Write short note on inheritance in C#. 6
- c) Explain for loop and while loop with proper syntax and examples. 8

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