2008

M.Sc.

3rd SEMESTER EXAMINATION

Computer Science

PAPER—CS-2102

Full Marks : 50

Time : 2 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Module–M1

(*Object Oriented Programming*)

Answer any *four* questions.

1. What is static constructor? Why use static constructor? Define inhereated class.   5

2. What is interface? Why use interface? In what instances you will declare a constructor to be private?   5

3. Define abstract class. Can we have different access modifiers on get/set methods of a property? Explain method overriding.   5

4. What is unsafe code? What is the significance of unsafe code? Give an example of unsafe code.   5

5. Write the differences between a static and an instance constructor? What is virtual method? Can you inherit from multiple base classes in C#? 5

6. Explain the following keywords :

   (i) this & (ii) fixed. $2\frac{1}{2} \times 2$

[Internal Assessment — 5]

Module–M2
(Advance Java)

Answer any *four* questions.

1. What is default constructor? Write a Program to display Fibonacci series without creating an object using different class. 1+4

2. Describe the complete lifecycle of a thread. 5

3. (a) Why java is platform independent?
   (b) When two constructors are overloaded?
   (c) How do you compile and run a java program?

   2+2+1

4. What is JDBC? How to connect java with database using JDBC? 1+4

5. (a) How does string class differ from string Buffer class?
   (b) What is interface? How to define an Interface.

   2+(1+2)

6. What is polymorphism? Difference between method overloading and method overriding? 1+4

[Internal Assessment — 5]

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