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**Question Paper Code : 95373**

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2015.

Elective

Computer Technology/Software Engineering/Information technology

XCS 019 — EXTREME PROGRAMMING

(Regulations 2003)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is the difference between value type and reference type?
2. What is the use of 'out' parameter?
3. State the purpose of lock, checked and unchecked statements.
4. Give an example code for method nesting.
5. What is an enumerated data type in C#?
6. How are strings manipulated in C#?
7. What is meant by constructor?
8. List the various operators that are not overloaded in C++.
9. How will you instantiate a delegate?
10. Write down the functionality of the four exception handling keywords in C#.

PART B — (5 × 16 = 80 marks)

11. (a) Discuss the architecture of .NET framework in detail. (16)

Or

(b) Categorize the C# operators and expressions and give an example for each one. (16)

12. (a) Brief out the different kinds of Decision making and branching statements with an example for each. (16)

Or

- (b) (i) Describe the use of method parameters in C#. (8)  
(ii) Explain method overloading with a sample program. (8)
13. (a) List the different types of arrays supported in C# and explain each one with suitable examples. (16)

Or

- (b) (i) Explain the usage of structures with a simple example. (8)  
(ii) List any two string manipulation features and write C# code to implement those features. (8)
14. (a) (i) Write a C# program by creating a base class shape and write two derived classes rectangle and triangle to calculate the area of the shape. (8)  
(ii) Explain operator overloading with an example C# program. (8)

Or

- (b) (i) Where do you use abstract classes? Explain the creation of an abstract class with an example. (8)  
(ii) "C# does not allow multiple inheritances whereas it allows multiple interfaces" Justify this statement. (8)
15. (a) (i) Describe the concept of Exception handling in C#. How it is used in C#. (8)  
(ii) Explain the console Input and Output briefly. (8)

Or

- (b) What is meant by delegates? How is it declared, initialized and invoked in C#? Give examples. (16)