

Reg. No. :

Question Paper Code : Z 8414

B.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2009.

Elective

Computer Technology

BCS 017 — EXTREME PROGRAMMING

(Common to B.Sc. Information Technology)

(Regulation 2003)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List the value and reference types supported in C#.
2. What is the use of 'ref' parameter in C#?
3. What is the use of 'for each' in C#?
4. Write a C# program to find the square of a given number.
5. What is the use of array list class?
6. Define boxing and unboxing.
7. Does C# support destructor? Explain.
8. What is the use of 'new' in C#?
9. What is namespace?
10. What is an exception?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Highlight the features of .NET framework. (10)
(ii) What are the advantages of using C#? (6)

Or

- (b) (i) Explain the process of compiling and executing a C# program. (10)
(ii) List the data types supported in C#. (6)

12. (a) (i) Write a C# program to find the area of a circle. (10)
(ii) What is the use of 'out' parameter? (6)

Or

- (b) (i) Write a C# program to find the greatest of three numbers. (8)
(ii) What is method over loading? Explain with an example. (8)

13. (a) (i) What is a variable size array? How is it created in C#? (8)
(ii) Compare structures and classes in C#. (8)

Or

- (b) (i) Explain the use of enumerations with an example. (8)
(ii) List the various string functions supported in C#. (8)

14. (a) (i) Consider a class figure with area as a virtual function. Derive two classes circle and rectangle from the figure class and override the area function and demonstrate polymorphism. (10)
(ii) Compare abstract classes with interfaces. (6)

Or

- (b) (i) Explain hierarchical inheritance with an example. (8)
(ii) Explain overloaded constructor with an example. (8)

15. (a) (i) What is a delegate? Explain its features in C# with an example. (8)
(ii) Write a user defined exception to display a message if age is negative. (8)

Or

- (b) (i) What is a multicast delegates? Explain. (10)
(ii) List the various types of errors. (6)
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