Reg. No. : | | | | | | | | | | | | |

Question Paper Code : 45863

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

Elective

Information Technology

XCS 019 — EXTREME PROGRAMMING

(Common to 5 Year M.Sc. Computer Technology and M.Sc. Software Engineering)

(Regulation 2003)

Time : Three hours Maximum : 100 marks

(Code/Tables/Charts to be permitted, if any, may be indicated)

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List out the features of C#.
2. How to convert any integer variable into string?
3. How do we invoke a method in C#?
4. What is method overloading? List out the steps involved in method selection.
5. Define array and elements.
6. Which overloaded operator is used to copy and concatenate string? Give example.
7. Give two ways to calculate area of rectangle.
8. What is the need of operator overloading?
9. What is the need of delegates?
10. What do you mean by build error?

PART B — (5 × 16 = 80 marks)

11. (a) (i) Explain in detail about significant phases of development in .NET framework. (6)

(ii) Describe in detail about primitive data types involved in C#. (10)

Or

(b) With a suitable program, explain arithmetic operators in C#.

12. (a) (i) Describe in detail about different ways to repeat a statement in an application.

(ii) Discuss in detail about any two kinds of method parameter employed in C#.

Or

(b) (i) Write a C# program to find the largest among two numbers using nesting of methods inside a class.

(ii) Write a C# program to perform multiplication for both integer and float using method overloading.

13. (a) Write a C# program that initialize an array of size 10×10.

Or

(b) (i) Explain in detail about string methods that could be used for various operations with suitable example.

(ii) Illustrate a simple application of struct type objects.

14. (a) (i) Describe overloaded constructors in detail.

(ii) Write a C# program to illustrate the concept of polymorphism.

Or

(b) (i) Discuss in detail about different types of inheritance.

(ii) Explain interfaces in detail with suitable sample code.

15. (a) Write a C# program to declare and implement a delegate.

Or

(b) (i) Write a program to read a string from the keyboard using console directly in C#. (6)

(ii) How to thrown an exception during debugging process and how to break down when exception occurs and start execution. (10)
