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

Question Paper Code : 35566

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.

Elective

Software Engineering

ESE 517 — EXTREME PROGRAMMING

(Regulations 2010)

Time : Three hours Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Define termination status code and state its purpose.

2. What is unboxing and how it is achieved in C#?

3. Name the four types of method parameters in C#.

4. How does the for each statement differ from the for statement?

5. Differentiate Array List class from an Array class.

6. What is enumeration and how is it useful in C# programming?

7. Define a static constructor and state how it is different from non-static constructor?

8. How reusabiiity is achieved in C#?

9. Enumerate the steps involved in creating and using delegates.

10. Why is a proper ordering of catch blocks necessary in C#?

PART B — (5 × 16 = 80 marks)

11. (a) Explain the architecture of .NET framework with a neat diagram. (16)

Or

(b) (i) What are literals? Describe the types of literals in detail. (8)

(ii) What are the special operators in C#? Explain each with suitable example. (8)

12. (a) (i) Illustrate switch statement with suitable example. (8)

(ii) What is a modifier? List the various method modifiers in C#. (8)

Or

(b) (i) Explain method overloading in C# with suitable example. (10)

(ii) Write a method in C# that takes three values as input parameters and return the largest of the three values. (6)

13. (a) (i) Explain any six string class methods with suitable examples. (8)

(ii) What is nesting of structure? Illustrate nesting of structure with suitable example. (8)

Or

(b) (i) Design a structure data type named 'city' to contain the names of the cities and their population size. Develop a C# program using this structure to store population details of N cities (N is the input) and display them in the descending order of population size along with city name. (10)

(ii) What is a variable size array and how is it different from a rectangular array? Explain. (6)

14. (a) (i) Explain different types of constructors in C# with examples. (10)

(ii) State the characteristics of abstract class and abstract method. (6)

Or

(b) (i) Describe multiple and hierarchical inheritance with suitable examples. (8)

(ii) What is late binding and how it is achieved in C#? Illustrate with an example. (8)

15. (a) (i) Describe the syntax of a delegate declaration and give two examples of delegate declaration. (8)

(ii) What is event handler and how it is designed? Illustrate with an example. (8)

Or

(b) (i) Write C# program to handle an exception of type 'Argument Exception' effectively. (8)

(ii) Illustrate any two methods supported by console input stream with examples. (8)
