Reg. No.

V Semester B.C.A. 3 Degree Examination, Nov./Dec. 2017
•NET FRAMEWORK USING C # (Regular)

Time : 3 Hours

Max. Marks : 80

Instruction : **All** *Sections are* **compulsory**.

PART – A

1. Answer **any ten** of the following. **(2×10=20)**

   a) Mention the use of WriteLine() and ReadLine() methods of Console class.

   b) What is the purpose of static keyword ?

   c) Define the term constructor.

   d) List any two methods of System.GC class.

   e) What is an inner exception ?

   f) What is the significance of System. Application Exception class ?

   g) How is an Interface member invoked at Object level ?

   h) What is an event ? Give example.

   i) What is a shared assembly ?

   j) What is the purpose of Directory Info Class ?

   k) Write the syntax of for each loop.

   l) What is the difference between constant and read only ?

PART – B

Answer **any four** of the following : (5×4=20)

2. Explain the various decision making constructs in C#.

3. Discuss the basics of object lifetime.

4. Write a program to demonstrate exception handling using try catch and finally block.

5. Explain the •NET delegate type.

6. Describe the format of a •NET assembly.

7. Write a C# program to demonstrate the working of a simple calculator.

PART – C

Answer **any four** of the following : (10×4=40)

8. What is a software Framework ? Explain the building blocks of •NET framework.

9. Explain briefly :
   a) C# polymorphic support.
   b) Documenting C# code via XML. (5+5)

10. a) Explain the role of •NET exception handling.

    b) Write a program to reverse a string and check whether it is palindrome. (5+5)

11. a) Explain streamReader and StreamWriter Classes.

    b) Write a C# program to display machine details like machine name, physical memory, last bootup, etc. (5+5)

12. Write short notes on **any two** :
    a) Datatypes in C#.
    b) C# casting rules.
    c) Boxing and unboxing. (5+5)

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