Reg. No.

V Semester B.C.A.2 Degree Examination, October/November 2014

(RCU – Repeaters & Regular)

.NET FRAMEWORK USING C#

Time : 3 Hours]   [Max. Marks : 80

Instructions to Candidates :

         *1) All questions are **compulsory**.*

         2) Draw neat diagrams wherever necessary.

SECTION – A

Answer **any ten** of the following questions :   **(10 × 2 = 20)**

1. What is C#?

2. What is managed code?

3. What are the advantages of using .NET?

4. Distinguish between ref and out parameters.

5. What is an Eventhandler?

6. Define inter-operability.

7. What is line terminator in C#?

8. Define Sealed Class.

9. What is MSIL?

10. Define multicast delegate.

11. What is the use of finally statement?

12. What is the use of 'new' in inheritance?

SECTION – B

Answer **any six** of the following questions :   **(6 × 5 = 30)**

13. Describe the building blocks of .NET platform.

14. Explain the different methods of file system .GC type.

15. Distinguish between the synchronous and asynchronous delegate, with example.

16. Write a C# program to input real numbers and find the mean, variance and standard deviation.

17. How do you define Re-throwing Exception and Inner Exception?

18. What is a jagged array? Write a program to find the sum of all the elements present in jagged arrays of 3 inner layers.

19. Describe the steps involved in building multifile assembly, with an example.

20. Explain in detail about the concept of operator overloading.

SECTION – C

Answer **any three** of the following questions :   **(3 × 10 = 30)**

21. (a) Explain special operators available in C#.

    (b) Describe the uses of Invoke( ), Begin Invoke( ) and End Invoke( ).   **(5 + 5)**

22. (a) Explain boxing and unboxing with an example.

    (b) Write a C# program to demonstrate boxing and un-boxing concepts.
                                                                        (4 + 6)

23. Explain shared assemblies and private assemblies in detail, with necessary examples.   **(10)**

24. (a) What is the use of multiple catch block?

    (b) Describe the main advantages of C# events.   **(5 + 5)**

25. Write **any five** short notes on :

    (a) indexers

    (b) delegates

    (c) enumeration

    (d) verbation

    (e) structure

    (f) mutable and immutable strings   **(5 × 2 = 10)**

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