RJ-1746

M. Sc. (I.T.) (Sem. VII) (External) Examination

March / April - 2017

701 : C#.NET

Time : **3** Hours]   [Total Marks : **70**

Instruction :

1   Attempt any Three :   **18**

(1)   "Structure and Class type are same in C#". Comment on the statement with example.

(2)   Write a note on .NET framework.

(3)   Explain different access modifiers and its usage with example.

(4)   How threads are useful for parallel execution of program? Explain with proper example.

2   Attempt any Three :   **18**

(1)   How multicast Delegates are useful for large application development?

(2)   What is property type in .NET? Why is it known as a smart field?

(3)   Is it possible to extract any .NET assembly contents? Justify your answer with supporting example.

(4)   "We can create a class which can perform operations on any type of data specified by user at runtime", Justify.

3 (A) Write LINQ statements for following requirements : **10**

    (1) Get all students of fourth year living in Gujarat.

    (2) Get institute names having total students greater than 500.

    (3) Get all departments having highest total salary of employees.

    (4) Get name, address and email of all employees who like playing chess.

    (5) Get employee names starting with "aa" and contains characters 'd' and 'u' in name.

  (B) What is LINQ? How can we use it for different data storage types? Explain its usefulness in application development. **6**

OR

  (B) Write a note on conditional statements in F#. **6**

4 Attempt any **Three** : **18**

    (1) How to store and retrieve in memory data to use it in future without a change of relationship among them in .NET? Write C# code to justify your answer.

    (2) Explain dynamic polymorphism using interfaces while working with collection.

    (3) How can we extract files' and folders' information in C#.NET? Explain with proper example.

    (4) Explain difference between Indexer type and Array type with example.