



**VIT**  
Vellore Institute of Technology  
(Deemed to be University under section 3 of U.A. Act, 1956)

**SCHOOL OF INFORMATION TECHNOLOGY AND ENGINEERING**

**CAT I – M.Tech(SE)- Fall Semester - 2019-20**

**Course: .NET Programming**

**Duration: 90 minutes**

**Course Code: SWE1009**

**Max. Marks: 50**

**Slot: B2+TB2**

**Faculty: Dr.E.Sathiyamoorthy**

1. Discuss in detail about the basic building components of .NET Framework. Also, justify how code is optimized in JIT Compilation. (10)
2. Create a DLL that has methods to obtain the transpose of a given 3X3 matrix, sum of positive number and sum of negative number stored in array. Use the concept of Multicast delegate to invoke the above function by passing array to function. Store the sum of positive and negative values in user defined registry. (15)
3. Write a program using indexers with classes for storing the temperature of a day at various time intervals. Provide an option such that if the time has been given respective temperature of the day has to be displayed. Store the maximum temperature of the day in user defined registry. (10)
4. Create a generalized DLL that has methods for finding count of vowels and consonants for a given string. Write a program that would take input as a string array which is initialized using the concept of indexers. Use the concept of multicast delegate to invoke the above methods. Store the count of vowels with array position in user defined registry. (15)

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