

## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

## TEST -1 EXAMINATION- 2015

## B.Tech VII Semester

COURSE CODE: 12B1WCI734

MAX. MARKS: 15

COURSE NAME: C# and VB.Net

COURSE CREDITS: 03

MAX. TIME: 1 HR

*Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Each Question carries 3 Marks.*

1. Explain the concept of cross language interoperability with respect to ASP .NET.
2. What is JIT compiler? What advantage does managed code offer against unmanaged code?
3. Write a C# program to find out the middle digit of a five digit number entered by the user.
4. Write a C# program to ask the user to enter 10 numbers and find which number has lowest number of prime factors?
5. An inventory control system keeps track of the inventory of a store. The items in the store are generally managed by storing the attributes of the items. One of the most important things in order to accomplish the task is the management of key of an item. Searching on the basis of key can be implemented by the concept of directories. The system should be able to manage the details of item by providing the following interface to the user.
  1. Enter details of the item 2.Show Details 3.Update 4.Search 5. Quit

Enter choice:

The system should carry out the appropriate task as per the choice entered by the user.

The item entity may have the following attributes

- a. Item Number b. Name c. Cost d. Manufacturer e. Category

The details of a manufacturer may be stored in a separate entity. The attributes of the entity are as follows:

- a. Name b. Address c. City d. State e. Phone number f. e-mail id g. Identifier

The entity 'Category' has the following details:

- a. Category ID b. Name

Implement the above concept by using generics and collections.