

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- Oct 2017

B.Tech VII Semester

COURSE CODE: 12B1WCI734

MAX. MARKS: 25

COURSE NAME: C# and VB.Net

COURSE CREDITS: 03

MAX. TIME: One Hour Thirty Minutes

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

1. What are jagged arrays? Write a program in C# to discuss the concept of jagged arrays. Also, discuss how you will perform the binary search using System. Array class? [5 Marks]
2. Discuss how you will handle the variable number of parameters in a method with the help of an example. Also, explain the concept of out parameters. [5 Marks]
3. Write a C# program to explain the concept of this reference. Also, Differentiate between the static and const member of a C# class. [5 Marks]
4. Create a structure in C# called Item having the following data items. [5 Marks]

ID

Name

Manufacturer

DateOfManufacturing

DateOfExpiry

Price

Following is the list of methods in the above structure.
getdata(), which takes data from the user.

putdata(), which displays data.

- a. Now create an array of instances of the above structure.
 - b. From the above array display the details of item having minimum price.
 - c. Show the details of the items having price above the average price of all the elements.
 - d. Show the list of items which have expired.
5. Answer the following with respect to C# programming language: [5 Marks]
- a. What is the significance of runtime polymorphism?
 - b. Which type of inheritance is not allowed?
 - c. What can be the reason for having an abstract class in the program?
 - d. Name some access specifiers.
 - e. What is containment?