Arind Kerman

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -2 EXAMINATION- Oct 2019

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]

 \mathbf{ID}

Name

Manufacturer

DateOfManufacturing

DateOfExpiry

Price

Following is the list of methods in the above structure. getdata(), which akes 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. The value of n^{th} item of a sequence is given by the following function $f(n) = f(n/2) + 2 \times f(n-1)$. The value of f(1) = 1 and f(2) = 5. Ask the user to enter the value of n and find the value of f(n).

 [5 Marks]