GANPAT UNIVERSITY

B. Tech. Semester: IV Computer Engineering / Information Technology

Regular Examination April - June 2015

2CE406/2IT406: Application Development Tools

Time: 3 Hours   Total Marks: 70

Instruction: 1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Each section should be written in separate answer book.
4. Assume necessary data when needed.

Section – I

Que. 1	(a)	Write a console application to replace a substring with a given string. (**Note**: without using string function)	[6]
	(b)	Define array. Write syntax to initialize one, two dimensional and jagged array. Also write the difference between jagged array and two dimensional array.	[6]

OR

Que. 1	(a)	Write a C# code for following functionalities of calculator.(**Note**: Take necessary global variables)	[12]

        i.   backspace button functionality
        ii.   any one digit (from 0-9) button functionality
        iii. any one operator(+,-,*,/) button functionality

Que. 2	(a)	Write a console application for multiplication of two matrices using 2D array.	[5]
	(b)	Develop a windows application for text editor using file handling concepts. Application should be able to create & save the new file and open & edit the existing file.	[6]

OR

Que. 2	(a)	Write a console application to find the roots of quadratic equation using user defined function.	[5]
	(b)	Write a console application to display pascal triangle without using array.	[6]

Que. 3	(a)	Write a windows application with following methods and store the answer in ListBox: (Use TextBox as your input)	[8]

        i.   to find Prime numbers between specified range
        ii.   to find Palindrome numbers between specified range

	(b)	Differentiate among ReadKey(), ReadLine() and Read() methods.	[2]
	(c)	Explain the use of PictureBox control with example.	[2]

Que. 4 (a) Develop a window application for inserting student information into a database. [8] Consider a student table with fields like enrollment number, name, address, gender, semester and branch.

(b) Explain any four properties of TextBox control and write C# code to check [4] validation for mobile number.

OR

Que. 4 (a) Consider Book table with fields BookId, BookName, Author, Publisher, and [10] Description. Develop a window application to search book by Id and display its information in respective controls.

(b) Differentiate between ShowDialog() and Show() method of Windows form. [2]

Que. 5 (a) Develop a windows form which contains two ListBox and two Button to move [6] multiple selected items from one ListBox to another ListBox. Add necessary items in both ListBox. Application should be able to select multiple items from both ListBox.

(b) Explain the use of RichTextBox with its important properties. [4]

(c) Differentiate the use of RadioButton and CheckBox control. [1]

OR

Que. 5 (a) Explain all three DropDownStyle of ComboBox. Develop a window application [7] having two ComboBox, one for country and another for state. When user selects any country, states of selected country will be displayed in state ComboBox.

(b) Explain any four events of Windows Forms with example. [4]

Que. 6 (a) Explain ADO.NET architecture in detail with diagram. [6]

(b) Explain the functionalities of CLR. [6]

END OF PAPER