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MCA Semester III
MC13 – Client Server Architecture and Interface

Date: 30th December , 2013   **Time**: 10.00 am to 1.00 pm   **Total Marks**: 50

Instructions:
1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q – 1.   Write the code for the following: **[10]**
   a) To perform custom format in Dateandtimepicker control
   b) To accept only text and control keys in a textbox control
   c) To create a dynamic richtextbox control in a form
   d) To count the number of days by providing start date and end date.
   e) To convert string into date.

Q – 2.   [A]   Answer the following Objective question (All Compulsory):   **[5]**
   a) _____ keyword is related with constructor in the class.
   b) Full form of LINQ is _____
   c) _____ is the property of the picture box control.
   d) _____ control is used to restrict a user's input choice to a specific range of numeric values.
   e) _____ is the mediator between database and dataset object

[B]   Answer the following question: **[5]**
   a) Explain IDE? Explain any three components of IDE?
   b) What are the different Option statements available in vb.net and also specify how it should be declared?
                                    [OR]
   c) State the difference between Calendar control and DateTimePicker control?
   d) Write any three built-in functions of string with its syntax and an example?

Q – 3.   Answer the following question: **[10]**
   a) Explain in detail about 2-tier and 3-tier client server system with its advantages?
   b) Write ADO.NET Code showing Dataset storing multiple tables
                                    [OR]
   c) What is Data Adapter object? Write the properties and methods of it?
   d) Write the code to calculate the maximum salary from the salary details stored in an employee'stable?

Q – 4. **Answer the following question:** [10]

    a) Explain Exception handling in vb.net? Give an example which allows multiple exceptions in a single procedure?

    b) Write the coding for performing validations in a form that has three textboxes, which accepts only numeric, alphabets and date in each textbox.

<div align="center">[OR]</div>

    c) Write short notes on common dialog control? Explain open and save dialog box common properties and methods?

    d) Create a digital photo album application that allows user to fill image list control at runtime and display images one by one in a picture box. After a specific time the image should be changed.

Q – 5. **Answer the following question:**

    a) Write the steps involved in serialization and de-serialization in vb.net? [4]

    b) Write the syntax for binding data grid view with particular table in database and allows performing update and delete within the datagridview control? [6]

<div align="center">[OR]</div>

    c) Write short note on dialog boxes? [4]

    d) Write the code to accept an application form which has fields like Name, Address, Gender, DOB, Phone number for a Customer Care Executive : [6]

       i. It should have the age limit of less than 35 years.

       ii. Admin should able to view all the applicants' details in the data grid control.

       iii. The datagrid control should display only 10 applicants' details in a single page.

<div align="center">------------- All the Best ------------</div>