



**AK-2010250**

Seat No. 55185

**B.C.A. (Sem. V) Examination**

**October/November - 2010**

**CS-26 : Programming with C#**

*(New Course)*

Time : 3 Hours]

[Total Marks : 100

- 1 Attempt any four : 20**
- (i) What is .Net? List features of .Net and differentiate Managed Code and Unmanaged Code.
  - (ii) What do you mean by array? Differentiate Multidimensional arrays and jagged arrays with suitable example.
  - (iii) What is namespace in C#? List out various namespace with its functionality.
  - (iv) Explain Garbage Collector and Automatic Memory Management.
  - (v) What do you mean by exception? Explain how exceptions are handled in C# with suitable example.
  - (vi) What do you mean by sealed class in C#? Explain with suitable example.
- 2 Attempt any four : 20**
- (i) What is indexer? Explain overload indexer with suitable example.
  - (ii) What do you mean by delegate? What are types of it? Explain multicast delegate with example.
  - (iii) What is pointer? How function pointers can be use in C# with suitable example.

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- (iv) What is thread? Explain how to set thread priority with suitable example.
- (v) Explain method and operator overloading with suitable example.
- (vi) What is event? Explain it with suitable example.

**3 Attempt any four : 20**

- (i) What is collection? Explain any one collection type in detail.
- (ii) What is reflection? What are the needs of it?
- (iii) Explain Just-in-Time compilation process.
- (iv) Explain briefly Generic List and Generic HashSet.
- (v) Explain Thread Synchronization with suitable example.
- (vi) What is Sorted List? How Sorted List is used in C#?

**4 Attempt any two : 20**

- (i) What is ADO.NET? Explain architecture of ADO.NET in detail.
- (ii) List out Mouse and Key Events for the Window Form Control and explain any five with suitable example.
- (iii) Explain following controls in detail:
  - (a) RichTextBox
  - (b) TextBox
  - (c) TreeView
  - (d) ListView

**5 Attempt any two : 20**

- (i) Consider following table "Emp\_Salary" and perform following task:  
Field of Emp\_Salary table are (Emp\_ID, Basic\_Salary, HRA, DA, TA, PF, Net\_Salary).
  - (a) add record to the above table
  - (b) edit record based on emp\_id to the above table

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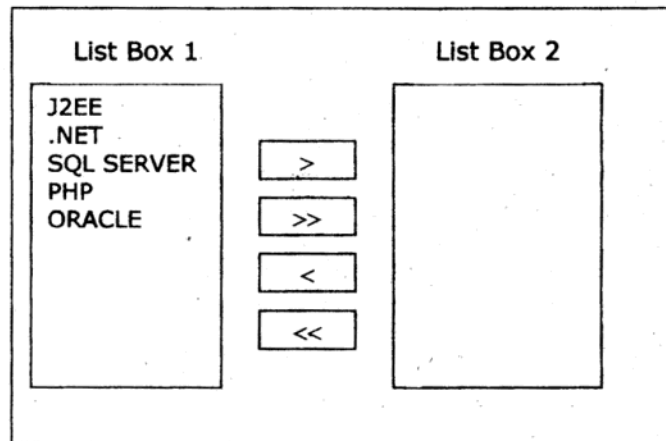
- (c) delete record based on emp\_id from the above table
- (d) Display all records in Data Grid Control.

Calculate

DA = 5% of basic salary, HRA = Rs. 2,500/- fix,  
TA = Rs. 1,000/-, P.f. = Rs. 760/-

Net\_Salary = Basic\_Salary + HRA + DA + TA + PF)

- (ii) Create Class MYAPP with attributes num1, num2 and num3. Write a program to overload + and - operator to add and subtract from object.
- (iii) Create a following form with two ListBox and four Buttons.



Perform list item navigation as per the click on the button.