

11. (a) (i) With a neat block diagram, explain the function of various units in a .NET framework. (8)
- (ii) What are Windows forms? Explain. (8)

Or

- (b) Write notes on : (8 + 8)
- (i) ASP.NET
- (ii) .NET objects.

12. (a) (i) What are the different components of CLR? How are they useful? (8)
- (ii) Write notes on Microsoft .NET strategy. (8)

Or

- (b) (i) With examples, explain the different data types supported by C#. (8)
- (ii) What are the different variable categories supported by C#? Explain. (8)

13. (a) (i) With examples, explain the different parameter passing techniques in method invocation. (8)
- (ii) Write a C# program to find the count and sum of all integers greater than 100 and less than 200 that are divisible by 7. (8)

Or

- (b) (i) What is an array list class? Explain its usage with examples. (8)
- (ii) Write a method that would take an array as input and check whether a given element is present in the list or not. The method must return true if it is present, otherwise return false. (8)

14. (a) (i) What are the different categories of class members? Explain. (8)
- (ii) Design a structure data type named Date Of Birth to contain date, month and year of birth. Develop a C# program using this data structure that would assign your date of birth to the individual members and display the date of birth in the following format :

My Date of birth is 03/05/96 (8)

Or

its in
(8)
(8)

- (b) (i) Discuss in detail about Visibility control. (8)
- (ii) A common use of static member variable is to keep track of objects that currently exist for a class. Write a C# program to illustrate the above scenario. (8)

+ 8)

15. (a) (i) With a sample program, explain how unary minus operator can be overloaded. (8)
- (ii) Define a Class MyString with the following features : (8)
- (1) An overloaded binary (+) operator that concatenates two Mystring objects and creates a third object.
 - (2) An overloaded comparison operator to compare two strings.

? (8)
(8)

Or

(8)
C#?
(8)

- (b) Write notes on :
- (i) Exceptions. (8)
 - (ii) Console I/O operations. (8)

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