



- Notes :
1. All the questions are compulsory and carry equal marks.
 2. Draw neat and labeled diagram wherever necessary.
 3. Avoid vague answer and write answer relevant and specific to question only.

Either:

1. a) Explain the following in short- 8
 i) CLR ii) MSIL
 b) Write a detailed note on Assemblies. 8

OR

- c) What do you mean by platform independency? Explain with suitable example. 8
- d) Write a note on CTS and CLS. 8

Either:

2. a) Write down the features of VB.Net. 8
- b) Write a program in VB.NET for printing the triangle. 8

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      1
    1 1
  1 2 1
1 3 3 1
1 4 6 4 1

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OR

- c) Explain any one control flow statement with example. 8
- d) Write a program in VB.NET to merge two sorted array. 8

Either:

3. a) Explain following with example. 8
 i) Method overloading ii) Constructor
 b) Write a program in VB.NET to check entered number is palindrome or not. 8

OR

- c) What do you mean by Delegate? Explain unicast and multicast with suitable example. 8
- d) Write a short note on- 8
 - i) Data Encapsulation.
 - ii) Data Abstraction

Either:

- 4. a) Explain ADO.NET objects and their usage in detail. 8
- b) Explain Data Adapter and Data set in detail. 8

OR

- c) Write a detail note on crystal Reports. 8
- d) What is meant by connected and disconnected environments? Explain in detail. 8

- 5. Solve all the questions.
 - a) Explain Garbage collection in brief. 4
 - b) Write a short note on Refactoring and Enhancement. 4
 - c) Explain Namespaces and Generics in short. 4
 - d) Write down the Limitations of ADO. 4
